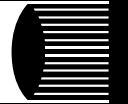


YoungerOptics

Technical Specifications



**YOUNGER
OPTICS** 
The Optical Lens Innovators

click on image



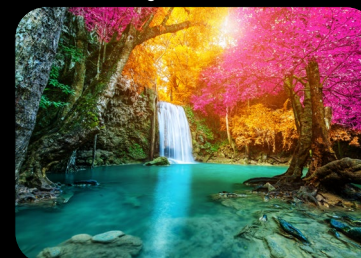
Camber™ Lenses

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Clear Lenses

click on image



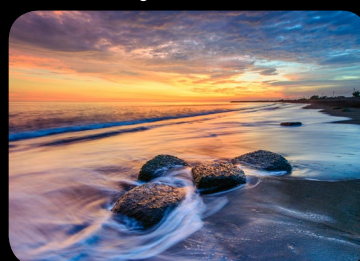
NuPolar® Polarized
Lenses

click on image



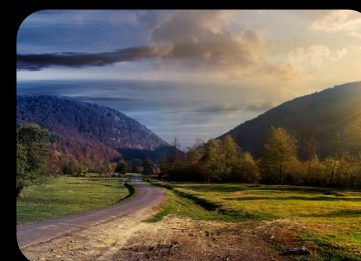
Transitions® Photochromic
Lenses

click on image



Transitions® XTRActive®
Photochromic Lenses

click on image



Transitions® Drivewear®
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Camber Lenses

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Camber™ 1.50 Clear (uncoated & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY
HARD RESIN	1.50	59	1.32

DIAMETER	NOMINAL BASE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.81	4.25	16.0	11.7	653.51
76	2.00	2.42	4.25	16.0	13.8	219.10
76	3.00	3.48	6.25	16.0	12.4	152.43
76	4.00	4.81	6.25	11.7	10.4	110.12
76	5.00	5.87	6.25	11.7	12.0	90.24
76	6.00	6.96	6.25	7.7	9.5	76.16
76	7.00	8.02	6.25	7.5	11.2	66.13
76	8.00	9.08	6.25	7.5	13.0	58.40

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Camber™ Trilogy® Clear (uncoated & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY
TRIVEX®	1.53	45	1.1

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.78	4.25	14.5	10.1	678.62
76	2.00	2.40	6.25	14.4	8.9	220.65
76	3.00	3.48	6.25	14.3	10.4	152.30
76	4.00	4.83	6.25	14.3	12.3	109.75
76	5.00	5.93	6.25	9.6	9.3	89.33
76	6.00	6.99	6.25	9.6	10.8	75.88
76	7.00	8.07	6.25	7.5	10.8	65.69
76	8.00	9.17	6.25	7.5	12.7	57.78

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Camber™ Polycarbonate Clear (uncoated & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY
POLYCARBONATE	1.59	32	1.21

DIAMETER	NOMINAL BASE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.67	4.25	11.7	8.0	786.35
76	2.00	2.03	4.25	11.7	10.0	261.60
76	3.00	2.92	4.25	11.8	11.3	181.69
76	4.00	4.04	6.25	12.1	10.7	131.25
76	5.00	4.96	6.25	8.0	8.2	106.92
76	6.00	5.84	6.25	8.4	9.6	90.74
76	7.00	6.75	7.69	8.4	9.1	78.47
76	8.00	7.65	7.69	8.1	10.5	69.24

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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Camber™ 1.60 Clear (uncoated & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY
MR-8	1.60	42	1.3

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.75	6.25	14.5	7.3	703.85
76	2.00	2.27	6.25	14.4	9.3	233.27
76	3.00	3.29	6.25	14.4	10.7	161.24
76	4.00	4.54	6.25	14.5	12.4	116.82
76	5.00	5.55	6.25	14.9	13.8	95.55
76	6.00	6.56	6.25	9.9	10.6	80.81
76	7.00	7.57	6.25	9.7	12.2	70.04
76	8.00	8.59	6.25	9.8	13.9	61.71

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Camber™ 1.60 Clear UV 420 (uncoated & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY
MR-8	1.60	42	1.3

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.75	6.25	14.5	7.3	703.85
76	2.00	2.27	6.25	14.4	9.3	233.27
76	3.00	3.29	6.25	14.4	10.7	161.24
76	4.00	4.54	6.25	14.5	12.4	116.82
76	5.00	5.55	6.25	14.9	13.8	95.55
76	6.00	6.56	6.25	9.9	10.6	80.81
76	7.00	7.57	6.25	9.7	12.2	70.04
76	8.00	8.59	6.25	9.8	13.9	61.71

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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Camber™ 1.67 Clear (uncoated & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY
MR-10	1.67	35	1.35

DIAMETER	BASE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.72	6.25	14.8	7.6	733.06
76	2.00	2.26	6.25	14.8	9.6	235.03
76	3.00	3.27	6.25	14.8	11.0	162.03
76	4.00	4.49	6.25	14.8	12.7	118.12
76	5.00	5.49	6.25	14.8	14.2	96.50
76	6.00	6.50	6.25	9.8	10.9	81.51
76	7.00	7.53	6.25	9.8	12.7	70.40
76	8.00	8.53	6.25	9.8	14.4	62.12

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Camber™ 1.67 Clear UV 420 (uncoated & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY
MR-10	1.67	35	1.35

DIAMETER	BASE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.72	6.25	14.8	7.6	733.06
76	2.00	2.26	6.25	14.8	9.6	235.03
76	3.00	3.27	6.25	14.8	11.0	162.03
76	4.00	4.49	6.25	14.8	12.7	118.12
76	5.00	5.49	6.25	14.8	14.2	96.50
76	6.00	6.50	6.25	9.8	10.9	81.51
76	7.00	7.53	6.25	9.8	12.7	70.40
76	8.00	8.53	6.25	9.8	14.4	62.12

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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Camber™ 1.74 Clear (uncoated & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY
MR-174	1.74	33	1.47

DIAMETER	BASE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
73	0.50	0.69	9.25	21.1	9.2	768.12
75	2.00	2.21	8.25	15.6	7.7	239.82
75	3.00	3.24	6.75	12.3	6.8	163.58
75	4.00	4.44	4.75	7.2	6.9	119.37
75	5.00	5.47	5.75	7.1	6.6	96.89
75	6.00	6.50	6.25	7.1	7.6	81.66
75	7.00	7.51	7.00	7.0	8.1	70.67
75	8.00	8.54	6.75	8.3	11.1	62.13

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Camber™ 1.74 Clear UV 420 (uncoated & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY
MR-174	1.74	33	1.47

DIAMETER	BASE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
73	0.50	0.69	9.25	21.1	9.2	768.12
75	2.00	2.21	8.25	15.6	7.7	239.82
75	3.00	3.24	6.75	12.3	6.8	163.58
75	4.00	4.44	4.75	7.2	6.9	119.37
75	5.00	5.47	5.75	7.1	6.6	96.89
75	6.00	6.50	6.25	7.1	7.6	81.66
75	7.00	7.51	7.00	7.0	8.1	70.67
75	8.00	8.54	6.75	8.3	11.1	62.13

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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Camber™

Transitions®
Gen®S™

1.50 (uncoated & hardcoated)

YoungerOptics Technical
Specifications

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
HARD RESIN	1.50	59	1.32	GREY BROWN

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
75	0.50	0.81	4.25	15.2	11.4	653.51
75	2.00	2.42	4.25	15.2	13.8	219.10
75	3.00	3.48	6.25	15.2	12.1	152.43
75	4.00	4.81	6.25	11.3	10.6	110.12
75	5.00	5.93	6.25	11.3	12.0	89.35
75	6.00	6.96	6.25	7.7	10.0	76.16
75	7.00	8.08	6.25	7.7	12.0	65.60
75	8.00	9.14	6.25	7.7	14.3	57.99

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MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
TRIVEX®	1.53	45	1.1	GREY BROWN

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.78	4.25	14.5	10.1	678.62
76	2.00	2.40	6.25	14.4	8.9	220.65
76	3.00	3.48	6.25	14.3	10.4	152.30
76	4.00	4.83	6.25	14.3	12.3	109.75
76	5.00	5.93	6.25	9.6	9.3	89.33
76	6.00	6.99	6.25	9.6	10.8	75.88
76	7.00	8.07	6.25	7.5	10.8	65.69
76	8.00	9.17	6.25	7.5	12.7	57.78

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MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
POLYCARBONATE	1.59	32	1.21	GREY BROWN

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
75	0.50	0.70	4.25	11.7	8.0	752.84
75	2.00	2.00	4.25	11.7	10.0	264.74
75	3.00	2.92	4.25	11.8	11.3	181.69
75	4.00	4.04	6.25	12.1	10.7	131.25
75	5.00	4.95	6.25	8.0	8.2	107.14
75	6.00	5.87	6.25	8.4	9.6	90.32
75	7.00	6.75	7.69	8.4	9.1	78.51
75	8.00	7.67	7.69	8.1	10.5	69.13

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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Camber™

Transitions®
Gen®S™

1.60 (uncoated & hardcoated)

YoungerOptics Technical
Specifications

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
MR8	1.60	42	1.30	GREY BROWN

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.75	6.25	14.5	7.3	703.85
76	2.00	2.27	6.25	14.4	9.3	233.27
76	3.00	3.29	6.25	14.4	10.7	161.24
76	4.00	4.54	6.25	14.5	12.4	116.82
76	5.00	5.55	6.25	14.9	13.8	95.55
76	6.00	6.56	6.25	9.9	10.6	80.81
76	7.00	7.57	6.25	9.7	12.2	70.04
76	8.00	8.59	6.25	9.8	13.9	61.71

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MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
MR-10	1.67	35	1.35	GREY BROWN

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.69	6.25	14.8	7.6	763.69
76	2.00	2.23	6.25	14.8	9.6	237.99
76	3.00	3.27	6.25	14.8	11.0	162.03
76	4.00	4.49	6.25	14.8	12.7	118.12
76	5.00	5.49	6.25	14.8	14.2	96.50
76	6.00	6.50	6.25	9.8	10.9	81.51
76	7.00	7.53	6.25	9.8	12.7	70.40
76	8.00	8.53	6.25	9.8	14.4	62.12

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Camber™

Transitions®
Gen®S™

1.74 (uncoated & hardcoated)

YoungerOptics Technical
Specifications

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
MR-174	1.74	33	1.47	GREY BROWN

DIAMETER	BASE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
73	0.50	0.66	9.25	21.1	9.2	803.03
75	2.00	2.19	8.25	15.6	7.7	242.01
75	3.00	3.20	6.75	12.3	6.8	165.63
75	4.00	4.40	4.75	7.2	6.9	120.46
75	5.00	5.43	5.75	7.1	6.6	97.61
75	6.00	6.46	6.25	7.1	7.6	82.04
75	7.00	7.49	7.00	7.0	8.1	70.76
75	8.00	8.52	6.75	8.3	11.1	62.21

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MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
TRIVEX®	1.53	45	1.1	GREY BROWN

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.78	4.25	14.5	10.1	678.62
76	2.00	2.40	6.25	14.4	8.9	220.65
76	3.00	3.48	6.25	14.3	10.4	152.30
76	4.00	4.83	6.25	14.3	12.3	109.75
76	5.00	5.93	6.25	9.6	9.3	89.33
76	6.00	6.99	6.25	9.6	10.8	75.88
76	7.00	8.07	6.25	7.5	10.8	65.69
76	8.00	9.17	6.25	7.5	12.7	57.78

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
POLYCARBONATE	1.59	32	1.21	GREY BROWN

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
75	0.50	0.70	4.25	11.7	8.0	752.84
75	2.00	2.00	4.25	11.7	10.0	264.74
75	3.00	2.92	4.25	11.8	11.3	181.69
75	4.00	4.04	6.25	12.1	10.7	131.25
75	5.00	4.95	6.25	8.0	8.2	107.14
75	6.00	5.87	6.25	8.4	9.6	90.32
75	7.00	6.75	7.69	8.4	9.1	78.51
75	8.00	7.67	7.69	8.1	10.5	69.13

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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Camber™

Transitions™
XTRACTIVE®
NEW GENERATION

1.60 (uncoated & hardcoated)

YoungerOptics Technical
Specifications

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
MR8	1.60	42	1.30	GREY BROWN

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.75	6.25	14.5	7.3	703.85
76	2.00	2.27	6.25	14.4	9.3	233.27
76	3.00	3.29	6.25	14.4	10.7	161.24
76	4.00	4.54	6.25	14.5	12.4	116.82
76	5.00	5.55	6.25	14.9	13.8	95.55
76	6.00	6.56	6.25	9.9	10.6	80.81
76	7.00	7.57	6.25	9.7	12.2	70.04
76	8.00	8.59	6.25	9.8	13.9	61.71

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
MR-10	1.67	35	1.35	GREY BROWN

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.69	6.25	14.8	7.6	763.69
76	2.00	2.23	6.25	14.8	9.6	237.99
76	3.00	3.27	6.25	14.8	11.0	162.03
76	4.00	4.49	6.25	14.8	12.7	118.12
76	5.00	5.49	6.25	14.8	14.2	96.50
76	6.00	6.50	6.25	9.8	10.9	81.51
76	7.00	7.53	6.25	9.8	12.7	70.40
76	8.00	8.53	6.25	9.8	14.4	62.12

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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Camber™

Transitions™
XTRACTIVE®
NEW GENERATION

1.74 (uncoated & hardcoated)

YoungerOptics Technical
Specifications

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
MR-174	1.74	33	1.47	GREY BROWN

DIAMETER	BASE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
73	0.50	0.66	9.25	21.1	9.2	803.03
75	2.00	2.19	8.25	15.6	7.7	242.01
75	3.00	3.20	6.75	12.3	6.8	165.63
75	4.00	4.40	4.75	7.2	6.9	120.46
75	5.00	5.43	5.75	7.1	6.6	97.61
75	6.00	6.46	6.25	7.1	7.6	82.04
75	7.00	7.49	7.00	7.0	8.1	70.76
75	8.00	8.52	6.75	8.3	11.1	62.21

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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Camber™

Transitions™
XTRACTIVE®
POLARIZED

Trilogy® (uncoated & hardcoated)

YoungerOptics Technical
Specifications

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
TRIVEX®	1.53	45	1.1	GREY BROWN

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.78	4.25	14.5	10.1	678.62
76	2.00	2.40	6.25	14.4	8.9	220.65
76	3.00	3.48	6.25	14.3	10.4	152.30
76	4.00	4.83	6.25	14.3	12.3	109.75
76	5.00	5.93	6.25	9.6	9.3	89.33
76	6.00	6.99	6.25	9.6	10.8	75.88
76	7.00	8.07	6.25	7.5	10.8	65.69
76	8.00	9.17	6.25	7.5	12.7	57.78

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
POLYCARBONATE	1.59	32	1.21	GREY BROWN

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
75	0.50	0.70	4.25	11.7	8.0	752.84
75	2.00	2.00	4.25	11.7	10.0	264.74
75	3.00	2.92	4.25	11.8	11.3	181.69
75	4.00	4.04	6.25	12.1	10.7	131.25
75	5.00	4.95	6.25	8.0	8.2	107.14
75	6.00	5.87	6.25	8.4	9.6	90.32
75	7.00	6.75	7.69	8.4	9.1	78.51
75	8.00	7.67	7.69	8.1	10.5	69.13

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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Camber™

Transitions™
XTRACTIVE®
POLARIZED

1.60 (uncoated & hardcoated)

YoungerOptics Technical
Specifications

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
MR8	1.60	42	1.30	GREY BROWN

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.75	6.25	14.5	7.3	703.85
76	2.00	2.27	6.25	14.4	9.3	233.27
76	3.00	3.29	6.25	14.4	10.7	161.24
76	4.00	4.54	6.25	14.5	12.4	116.82
76	5.00	5.55	6.25	14.9	13.8	95.55
76	6.00	6.56	6.25	9.9	10.6	80.81
76	7.00	7.57	6.25	9.7	12.2	70.04
76	8.00	8.59	6.25	9.8	13.9	61.71

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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Camber™

Transitions™
XTRACTIVE®
POLARIZED

1.67 (uncoated & hardcoated)

YoungerOptics Technical
Specifications

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
MR-10	1.67	35	1.35	GREY BROWN

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.69	6.25	14.8	7.6	763.69
76	2.00	2.23	6.25	14.8	9.6	237.99
76	3.00	3.27	6.25	14.8	11.0	162.03
76	4.00	4.49	6.25	14.8	12.7	118.12
76	5.00	5.49	6.25	14.8	14.2	96.50
76	6.00	6.50	6.25	9.8	10.9	81.51
76	7.00	7.53	6.25	9.8	12.7	70.40
76	8.00	8.53	6.25	9.8	14.4	62.12

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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Camber™ NuPolar® 1.50 (uncoated & hardcoated)

YoungerOptics Technical Specifications

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION
HARD RESIN	POLARIZED	1.50	59	1.32	GREY 1* – 66 % GREY 3 – 84 % BROWN – 83 %	100 %

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.81	4.25	16.6	11.4	653.51
76	2.00	2.42	4.25	16.4	13.8	219.10
76	3.00	3.48	6.25	16.5	12.0	152.43
76	4.00	4.81	6.25	13.4	10.6	110.12
76	5.00	5.87	6.25	13.1	12.0	90.24
76	6.00	6.96	6.25	9.2	10.0	76.16
76	7.00	8.02	6.25	9.2	12.0	66.13
76	8.00	9.08	6.25	9.4	14.3	58.40

* GRAY 1 IS NOT AVAILABLE IN ODD BASES

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Camber™ NuPolar® Polycarbonate (hardcoated)

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION
POLYCARBONATE	POLARIZED	1.59	32	1.21	GREY 3 – 84 % BROWN – 83 %	100 %

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
76	0.50	0.70	4.25	12.4	8.0	762.59
76	2.00	2.02	4.25	12.6	10.0	262.12
76	3.00	2.93	4.25	12.5	11.0	180.64
76	4.00	4.06	6.25	13.0	10.5	130.67
76	5.00	4.98	6.25	10.0	8.7	106.51
76	6.00	5.87	6.25	10.0	10.2	90.34
76	7.00	6.79	7.69	9.5	9.3	78.06
76	8.00	7.69	7.69	9.2	10.4	68.90

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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Camber™ NuPolar® 1.60 (uncoated & hardcoated)

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION
MR-8	POLARIZED	1.60	42	1.30	GREY 3 – 84 % BROWN – 80%	100 %

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
75	0.50	0.75	6.25	14.2	6.6	703.85
75	2.00	2.27	6.25	13.9	8.6	233.27
75	3.00	3.29	6.25	14.1	9.9	161.24
75	4.00	4.54	6.25	14.7	11.7	116.82
75	5.00	5.55	6.25	14.4	13.1	95.55
75	6.00	6.56	6.25	9.4	9.8	80.81
75	7.00	7.57	6.25	9.7	11.4	70.04
75	8.00	8.59	6.25	9.5	13.1	61.71

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Camber™ NuPolar® 1.67 (uncoated & hardcoated)

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION
MR-10	POLARIZED	1.67	35	1.35	GREY 3 – 83 % BROWN –86 %	100 %

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
75	0.50	0.72	6.25	14.8	7.6	736.11
75	2.00	2.27	6.25	14.8	9.6	233.48
75	3.00	3.30	6.25	14.8	11.0	160.61
75	4.00	4.50	6.25	14.8	12.8	117.78
75	5.00	5.49	6.25	14.8	14.2	96.54
75	6.00	6.50	6.25	9.7	10.6	81.54
75	7.00	7.54	6.25	9.7	12.6	70.29
75	8.00	8.56	6.25	9.7	14.4	61.92

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Camber™ Transitions® Drivewear® Polycarbonate (hardcoated)

YoungerOptics Technical Specifications

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	LIGHT ABSORPTION	UV ABSORPTION
POLYCARBONATE	PHOTOCHROMIC POLARIZED	1.59	32	1.21	INACTIVE 65 % ACTIVE IN CAR 78 % ACTIVE OUTSIDE 88 %	100 %

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	RADIUS
75	0.50	0.70	4.25	12.4	8.0	768.12
75	2.00	2.02	4.25	12.6	10.0	259.80
75	3.00	2.93	4.25	12.5	11.0	179.66
75	4.00	4.06	6.25	13.0	10.5	129.27
75	5.00	4.98	6.25	10.0	8.7	106.21
75	6.00	5.87	6.25	10.0	10.2	89.83
75	7.00	6.79	7.69	9.5	9.3	77.94
75	8.00	7.69	7.69	9.2	10.4	68.74

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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Clear Lenses

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Clear 1.50 SFSV 12 Base (uncoated)

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	PRESCRIPTION RANGE
HARD RESIN	SPHERICAL	1.50	59	1.32	+5.25 TO +10.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
71	12.25	12.18	6.25	7.0	16.5	7.90	43.51

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Clear 1.50 FT28 Bifocal (uncoated* & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	1.50	59	1.32	0.75 – 4.00	-8.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
80	2.25	2.30	4.25	15.0	12.0	6	5	1.36	230.43
80	4.25	4.26	6.25	14.5	11.5	6	5	2.54	124.41
80	6.25	6.30	6.25	9.5	9.5	6	5	3.80	84.13
80	8.25	8.30	6.25	9.0	12.5	6	5	5.10	63.86

* Uncoated made to order

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Clear 1.50 FT35 Bifocal (uncoated* & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	1.50	59	1.32	0.75 – 4.00	-8.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
76	2.25	2.30	4.25	16.0	13.5	6	5	1.36	230.43
76	4.25	4.26	6.25	12.0	9.5	6	5	2.54	124.41
76	6.25	6.30	6.25	8.0	8.5	6	5	3.80	84.13
76	8.25	8.30	6.25	8.0	11.5	6	5	5.10	63.86

* Uncoated made to order

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Clear 1.50 FT28 Bifocal High Add (uncoated* & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	1.50	59	1.32	SEE BELOW	-5.00 TO +2.00 4.25 BC: -2.25 TO -5.00 6.25 BC: +2.00 TO -2.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
80	4.25	4.26	6.25	14.5	11.5	0	5	2.54	124.41
80	6.25	6.30	6.25	9.5	9.5	0	5	3.80	84.13

ADD RANGE

4.25 BASE: 4.50 – 8.00 IN 0.50 STEPS

6.25 BASE: 4.50 – 6.00 IN 0.50 STEPS

* Uncoated made to order

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Clear 1.50 FT35 Bifocal High Add (uncoated* & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	1.50	59	1.32	SEE BELOW	-5.00 TO +2.00 4.25 BC: -2.25 TO -5.00 6.25 BC: +2.00 TO -2.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
80	4.25	4.26	6.25	14.5	11.5	0	5	2.54	124.41
80	6.25	6.30	6.25	9.5	9.5	0	5	3.80	84.13

ADD RANGE

4.25 BASE: 4.50 – 8.00 IN 0.50 STEPS

6.25 BASE: 4.50 – 6.00 IN 0.50 STEPS

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* Uncoated made to order

Clear 1.50 FT45 Bifocal (uncoated & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	1.50	59	1.32	0.75 - 3.00	-5.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
80	4.25	4.26	6.25	14.5	11.5	0	5	2.54	124.41
80	6.25	6.30	6.25	9.5	9.5	0	5	3.80	84.13
80	8.25	8.31	6.25	9.0	13.0	0	5	5.10	63.78

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Clear 1.50 Round Segment 22 Bifocal (uncoated & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	1.50	59	1.32	0.75 - 4.00	-8.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
80	2.25	2.30	4.25	15.0	12.0	0	7	1.36	230.43
80	4.25	4.26	6.25	14.5	11.5	0	7	2.54	124.41
80	6.25	6.30	6.25	9.5	9.5	0	7	3.80	84.13
80	8.25	8.30	6.25	9.0	12.0	0	7	5.10	63.86

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Clear 1.50 Round Segment 40 Bifocal (uncoated* & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	1.50	59	1.32	0.75 – 4.00	-8.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK VCURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
76	2.25	2.30	4.25	16.0	13.5	0	7	1.36	230.43
76	4.25	4.26	6.25	12.5	10.0	0	7	2.54	124.41
76	6.25	6.30	6.25	8.0	8.0	0	7	3.80	84.13
76	8.25	8.30	6.25	8.0	11.5	0	7	5.10	63.86

* Uncoated made to order

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Clear 1.50 Seamless 28 Bifocal (uncoated & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	1.50	59	1.32	0.75 - 3.00	-8.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
76	2.25	2.24	4.25	16.0	13.5	0	4	1.32	236.61
76	4.25	4.23	6.25	12.5	9.5	0	4	2.52	125.30
76	6.25	6.31	6.25	8.0	8.0	0	4	3.80	83.99
76	8.25	8.35	6.25	8.0	11.5	0	4	5.13	63.47

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Clear 1.50 FT 7x28 Trifocal (uncoated & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	VSPECIFIC GRAVITY	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	1.50	59	1.32	1.50 – 4.00	-5.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
80	4.25	4.28	6.25	14.0	11.0	4	4	2.55	123.83
80	6.25	6.33	6.25	9.5	9.5	4	4	3.82	83.73
80	8.25	8.33	6.25	9.0	13.0	4	4	5.12	63.63

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Clear 1.50 FT 8x35 Trifocal (uncoated & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	1.50	59	1.32	1.50 – 4.00	-5.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
80	4.25	4.28	6.25	14.0	11.0	4	3	2.55	123.83
80	6.25	6.31	6.25	9.5	9.5	4	3	3.81	83.99
80	8.25	8.35	6.25	9.0	13.0	4	3	5.13	63.47

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Clear 1.50 DD Occupational FT28 Trifocal (uncoated & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	1.50	59	1.32	NOTE ADDITIONS BELOW	-5.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
80	4.25	4.26	6.25	14.5	11.5	0	7	2.54	124.41
80	6.25	6.30	6.25	9.5	9.5	0	7	3.80	84.13
80	8.25	8.30	6.25	9.0	12.5	0	7	5.10	63.86

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ADD COMBINATIONS:	60%	<u>+1.00</u>	<u>+1.25</u>	<u>+1.50</u>	<u>+1.50</u>	<u>+1.75</u>	<u>+2.00</u>	
		<u>+1.75</u>	<u>+2.00</u>	<u>+2.25</u>	<u>+2.50</u>	<u>+2.75</u>	<u>+3.00</u>	
	100%	<u>+1.50</u>	<u>+1.75</u>	<u>+2.00</u>	<u>+2.25</u>	<u>+2.50</u>	<u>+2.75</u>	<u>+3.00</u>
		<u>+1.50</u>	<u>+1.75</u>	<u>+2.00</u>	<u>+2.25</u>	<u>+2.50</u>	<u>+2.75</u>	<u>+3.00</u>

Clear 1.50 Image® Progressive (uncoated & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	MINIMUM FITTING HEIGHT	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	1.50	59	1.32	18 mm	1.00 – 3.00	-8.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	MRP DEC.	SEG INSET	FITTING CROSS ABOVE MRP	SAG AT 50	RADIUS
80	2.00	2.02	4.25	13.5	11.0	2.5	2.5	2	1.19	262.38
80	4.50	4.57	6.25	13.5	11.5	2.5	2.5	2	2.73	115.97
80	6.50	6.33	6.25	9.0	10.0	2.5	2.5	2	3.82	83.73
80	8.50	8.34	6.25	8.5	13.5	2.5	2.5	2	5.12	63.55

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Clear Trilogy® FSV (Hardcoated & Super Hydrophobic Multicoated)

YoungerOptics Technical Specifications

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY
TRIVEX®	SPHERICAL	1.53	45	1.1

	SPH-CYL-								
SPH	0.00	-0.25	-0.50	-0.75	-1.00	-1.25	-1.50	-1.75	-2.00
0.00									
-0.25									
-0.50									
-0.75									
-1.00									
-1.25									
-1.50									
-1.75									
-2.00					70 mm				
-2.25									
-2.50									
-2.75									
-3.00									
-3.25									
-3.50									
-3.75									
-4.00									
-4.25									
-4.50									
-4.75									
-5.00									
-5.25									
-5.50									
-5.75									
-6.00									
-6.25									
-6.50									
-6.75									
-7.00									
-7.25									
-7.50									
-7.75									
-8.00									

	SPH+CYL-								
SPH	0.00	-0.25	-0.50	-0.75	-1.00	-1.25	-1.50	-1.75	-2.00
+0.25									
+0.50									
+0.75									
+1.00									
+1.25									
+1.50									
+1.75									
+2.00									
+2.25					65 mm				
+2.50									
+2.75									
+3.00									
+3.25									
+3.50									
+3.75									
+4.00									
+4.25									
+4.50									
+4.75									
+5.00									
+5.25									
+5.50									
+5.75									
+6.00									

 65 mm  70 mm

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Clear Trilogy® SFSV Spherical (uncoated & hardcoated)

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	PRESCRIPTION RANGE
TRIVEX®	SPHERICAL	1.53	45	1.1	-9.75 TO + 7.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
76	0.50	0.49	4.25	17.1	12.5	0.29	1081.63
76	1.25	1.25	4.25	14.4	10.8	0.74	424.00
76	2.25	2.26	4.25	14.6	12.3	1.34	234.51
76	3.25	3.26	4.25	14.3	13.4	1.93	162.58
76	4.25	4.23	4.25	14.5	14.8	2.52	125.30
76	5.25	5.33	6.25	7.7	6.8	3.19	99.44
76	6.25	6.24	6.25	7.4	8.1	3.76	84.94
76	7.25	7.33	6.25	7.5	9.8	4.44	72.31
76	8.25	8.27	6.25	7.3	11.3	5.08	64.09

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Clear Trilogy® SFSV Aspheric (uncoated & hardcoated)

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	PRESCRIPTION RANGE
TRIVEX®	ASPHERICAL	1.53	45	1.1	-9.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
76	0.50	0.49	6.25	14.5	7.0	0.29	1081.63
76	1.25	1.23	4.25	10.0	7.0	0.81	386.86
76	2.25	2.25	4.25	10.0	7.5	1.40	223.63
76	3.00	3.02	4.25	7.5	6.5	1.83	171.52
76	3.50	3.51	4.25	7.5	6.5	2.08	151.43
76	4.25	4.23	4.25	7.5	7.5	2.48	127.10
76	5.00	4.99	4.25	7.5	8.5	2.95	107.29
76	6.00	5.97	6.25	7.5	6.5	3.56	89.53
76	7.00	7.03	6.25	7.5	8.0	4.23	75.93

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Clear Trilogy® FT28 Bifocal (hardcoated)

YoungerOptics Technical Specifications

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	ADD RANGE	PRESCRIPTION RANGE
TRIVEX®	SPHERICAL	1.53	45	1.1	1.00 - 3.50	-9.00 TO +7.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
76	2.25	2.26	4.25	14.5	12.5	6	5	1.33	234.51
76	4.25	4.28	6.25	14.5	11.5	6	5	2.55	123.83
76	6.25	6.30	6.25	8.0	8.0	6	5	3.80	84.13
76	8.25	8.34	6.25	8.5	11.5	6	5	5.12	63.55

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Clear Trilogy® Image® (uncoated* & hardcoated)

YoungerOptics Technical Specifications

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	MINIMUM FITTING HEIGHT	ADD RANGE	PRESCRIPTION RANGE
TRIVEX®	1.53	45	1.1	18 mm	1.00 – 3.00	-8.00 TO +8.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	MRP DEC.	SEG INSET	FITTING CROSS ABOVE MRP	SAG AT 50	RADIUS
76	2.00	2.07	6.25	14.0	9.0	2.5	2.5	2	1.22	256.04
76	4.50	4.61	6.25	14.0	13.0	2.5	2.5	2	2.75	114.97
76	6.50	6.32	6.25	8.0	9.0	2.5	2.5	2	3.81	83.86
76	8.50	8.30	6.25	8.0	12.0	2.5	2.5	2	5.10	63.86

* Uncoated made to order

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Clear Trilogy® Adage® (uncoated* & hardcoated)

YoungerOptics Technical Specifications

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	MINIMUM FITTING HEIGHT	ADD RANGE	PRESCRIPTION RANGE
TRIVEX®	1.53	45	1.1	13 mm	0.75 – 3.50	-8.00 TO +7.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	MRP DEC.	SEG INSET	FITTING CROSS ABOVE MRP	SAG AT 50	RADIUS
76	2.00	2.01	6.25	14.1	9.20	2.5	2.5	2	1.19	263.68
76	4.00	4.05	6.25	14.1	12.0	2.5	2.5	2	2.41	130.87
76	6.00	6.07	6.25	7.4	8.25	2.5	2.5	2	3.66	87.32
76	8.00	8.11	6.25	7.4	11.7	2.5	2.5	2	4.97	65.35

* Uncoated made to order

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Clear Polycarbonate Image® (hardcoated)

YoungerOptics Technical Specifications

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	MINIMUM FITTING HEIGHT	ADD RANGE	PRESCRIPTION RANGE
POLYCARBONATE	1.59	32	1.21	18 mm	1.00 – 3.00	-9.00 TO +7.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	MRP DEC	SEG INSET	FITTING CROSS ABOVE MRP	SAG AT 50	RADIUS
76	2.00	2.02	4.25	12.8	11.0	3.5	2.5	2	1.19	262.38
76	4.50	4.28	6.25	12.5	11.5	3.5	2.5	2	2.55	123.83
76	6.50	6.26	6.25	10.0	11.5	3.5	2.5	2	3.77	84.67
76	8.50	8.26	9.50	10.0	10.0	3.5	2.5	2	5.07	64.17

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Clear Polycarbonate Adage® (hardcoated)

YoungerOptics Technical Specifications

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	MINIMUM FITTING HEIGHT	ADD RANGE	PRESCRIPTION RANGE
POLYCARBONATE	1.59	32	1.21	13 mm	1.00 – 3.00	-8.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	MRP DEC	SEG INSET	FITTING CROSS ABOVE MRP	SAG AT 50	RADIUS
76	2.00	1.99	4.25	12.8	11.0	2.5	2.5	2	1.18	266.33
76	4.00	3.99	6.25	12.9	11.1	2.5	2.5	2	2.37	132.83
76	6.00	5.84	6.25	9.9	11.0	2.5	2.5	2	3.51	90.75
76	8.00	7.71	9.60	9.7	8.5	2.5	2.5	2	4.71	68.74

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Clear 1.60 FSV Spherical Super Hydrophobic AR Coated*

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY
MR-8	SPHERICAL	1.60	42	1.3

SPH	CYL (-)								
(-)	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
0.00									
0.25									
0.50									
0.75									
1.00									
1.25									
1.50									
1.75									
2.00									
2.25			75 mm						
2.50									
2.75									
3.00									
3.25									
3.50									
3.75									
4.00									
4.25									
4.50									
4.75									
5.00									
5.25									
5.50									
5.75									
6.00									

SPH	CYL (-)								
(+)	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
0.00									
0.25									
0.50									
0.75									
1.00									
1.25									
1.50			65 mm						
1.75									
2.00									
2.25									
2.50									
2.75									
3.00									
3.25									
3.50									
3.75									
4.00									
4.25									
4.50									
4.75									
5.00									
5.25									
5.50									
5.75									
6.00									

* Made to order

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Clear 1.60 SFSV (uncoated & hardcoated)

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	PRESCRIPTION RANGE
MR-8	SPHERICAL	1.60	42	1.3	-11.00 TO +9.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
73	0.50	0.58	6.38	15.1	7.4	0.34	913.79
73	1.25	0.95	6.38	14.2	7.0	0.56	557.90
73	2.25	1.82	6.38	15.1	9.0	1.08	291.21
73	3.25	3.05	6.38	12.6	8.0	1.81	173.77
73	4.25	3.98	5.68	12.0	9.6	2.37	133.17
73	5.25	4.96	5.68	10.0	9.0	2.97	106.86
73	6.25	5.88	5.68	8.9	9.2	3.54	90.14
73	7.25	6.91	5.68	7.7	9.5	4.19	76.70
73	8.25	7.88	5.68	8.2	11.5	4.82	67.26
70	9.25	9.02	8.38	8.5	10.0	5.58	58.76
70	10.25	10.03	8.38	9.5	12.5	6.29	52.84

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Clear 1.60 SFSV UV 420 (uncoated & hardcoated)

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	PRESCRIPTION RANGE
MR-8	SPHERICAL	1.60	42	1.3	-11.00 TO +9.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
73	0.50	0.58	6.38	15.1	7.4	0.34	913.79
73	1.25	0.95	6.38	14.2	7.0	0.56	557.90
73	2.25	1.82	6.38	15.1	9.0	1.08	291.21
73	3.25	3.05	6.38	12.6	8.0	1.81	173.77
73	4.25	3.98	5.68	12.0	9.6	2.37	133.17
73	5.25	4.96	5.68	10.0	9.0	2.97	106.86
73	6.25	5.88	5.68	8.9	9.2	3.54	90.14
73	7.25	6.91	5.68	7.7	9.5	4.19	76.70
73	8.25	7.88	5.68	8.2	11.5	4.82	67.26
70	9.25	9.02	8.38	8.5	10.0	5.58	58.76
70	10.25	10.03	8.38	9.5	12.5	6.29	52.84

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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Clear 1.67 FSV Single Aspheric Super Hydrophobic AR Coated

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY
MR-7	SINGLE ASPHERIC	1.67	31	1.35

SPHERE	CYLINDER (-)								
(-)	0.00	-0.25	-0.50	-0.75	-1.00	-1.25	-1.50	-1.75	-2.00
0.00									
-0.25									
-0.50									
-0.75									
-1.00									
-1.25									
-1.50									
-1.75									
-2.00									
-2.25									
-2.50									
-2.75									
-3.00									
-3.25									
-3.50									
-3.75									
-4.00									
-4.25									
-4.50									
-4.75									
-5.00					75mm				
-5.25									
-5.50									
-5.75									
-6.00									
-6.25									
-6.50									
-6.75									
-7.00									
-7.25									
-7.50									
-7.75					70mm				
-8.00									
-8.25									
-8.50									
-8.75									
-9.00									
-9.25									
-9.50									
-9.75									
-10.00									

SPHERE	CYLINDER (-)								
(-)	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
0.00									
0.25									
0.50									
0.75									
1.00									
1.25									
1.50				65mm					
1.75									
2.00									
2.25									
2.50									
2.75									
3.00									
3.25									
3.50									
3.75									
4.00									
4.25									
4.50									
4.75									
5.00									
5.25									
5.50									
5.75									
6.00									

65 mm 70 mm 75 mm

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Clear 1.67 SFSV (uncoated & hardcoated)

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	PRESCRIPTION RANGE
MR-10	SPHERICAL	1.67	35	1.35	-14.00 TO +11.00

DIAMETER	BASE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
65	0.50	0.50	6.15	15.0	9.6	0.29	1057.88
74	1.00	1.07	6.11	16.0	9.0	0.63	495.33
74	2.00	1.83	6.11	16.0	10.3	1.08	289.62
74	3.00	3.12	6.11	13.5	9.5	1.85	169.87
74	4.00	4.11	6.11	13.5	10.5	2.45	128.95
74	5.00	5.10	6.11	12.0	10.5	3.05	103.92
74	6.00	6.10	6.11	10.5	10.5	3.67	86.89
74	7.00	7.59	6.11	8.5	10.7	4.63	69.83
70	9.00	9.04	6.93	8.4	11.5	5.60	58.63
65	12.00	11.96	8.09	5.0	10.5	7.73	44.31

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Clear 1.67 SFSV UV 420 (uncoated & hardcoated)

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	PRESCRIPTION RANGE
MR-10	SPHERICAL	1.67	35	1.35	-14.00 TO +11.00

DIAMETER	BASE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
65	0.50	0.50	6.15	15.0	9.6	0.29	1057.88
74	1.00	1.07	6.11	16.0	9.0	0.63	495.33
74	2.00	1.83	6.11	16.0	10.3	1.08	289.62
74	3.00	3.12	6.11	13.5	9.5	1.85	169.87
74	4.00	4.11	6.11	13.5	10.5	2.45	128.95
74	5.00	5.10	6.11	12.0	10.5	3.05	103.92
74	6.00	6.10	6.11	10.5	10.5	3.67	86.89
74	7.00	7.59	6.11	8.5	10.7	4.63	69.83
70	9.00	9.04	6.93	8.4	11.5	5.60	58.63
65	12.00	11.96	8.09	5.0	10.5	7.73	44.31

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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Clear 1.67 FT28 Bifocal (hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	ADD RANGE	PRESCRIPTION RANGE
MR-10	1.67	35	1.35	1.00 - 3.50	-10.00 TO +7.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
74	1.00	0.99	6.00	15.5	8.0	5	5	0.58	535.35
74	3.00	3.02	6.00	13.5	9.5	5	5	1.79	175.50
74	5.00	5.05	6.00	12.5	11.5	5	5	3.02	104.95
74	7.00	7.06	4.43	8.0	12.0	5	5	4.29	75.07

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Clear 1.67 Image® (uncoated & hardcoated)

YoungerOptics Technical Specifications

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	MINIMUM FITTING HEIGHT	ADD RANGE	PRESCRIPTION RANGE
MR-10	1.67	35	1.35	18 mm	1.00 – 3.50	-10.00 TO +7.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	MRP DEC.	SEG INSET	FITTING CROSS ABOVE MRP	SAG AT 50	RADIUS
74	1.50	1.79	6.00	15.7	10.3	2.5	2.5	2	1.06	296.09
74	3.00	3.02	6.00	13.4	9.5	2.5	2.5	2	1.79	175.50
74	5.00	5.04	6.00	13.4	12.3	2.5	2.5	2	3.01	105.16
74	7.00	7.56	6.00	9.7	12.8	2.5	2.5	2	4.61	70.11

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Clear 1.74 FSV Double Aspheric Super Hydrophobic AR Coated

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	UV ABSORPTION
MR-174	DOUBLE ASPHERIC	1.74	33	1.47	100%

SPHERE	CYLINDER (-ON)																S -
	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	
2.00																	
2.25																	
2.50																	
2.75																	
3.00																	
3.25								75mm									
3.50																	
3.75																	
4.00																	
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4.75																	
5.00																	
5.25																	
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5.75																	
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6.50																	
6.75																	
7.00																	
7.25																	
7.50								70mm									
7.75																	
8.00																	
8.25																	
8.50																	
8.75																	
9.00																	
9.25																	
9.50																	
9.75																	
10.00																	
10.50																	
11.00							65mm										
11.50																	
12.00																	
12.50																	
13.00																	
13.50																	
14.00																	
14.50																	
15.00																	

75mm

70mm

65mm

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Clear 1.74 SFSV (uncoated & hardcoated)

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	PRESCRIPTION RANGE
MR-174	SPHERICAL	1.74	33	1.47	-18.00 TO +12.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
65	0.50	0.27	9.40	18.5	8.5	0.16	1962.96
65	1.00	1.04	9.40	16.8	7.5	0.61	509.62
70	1.50	1.57	8.20	15.5	7.0	0.93	337.58
75	2.50	2.47	6.90	12.5	6.1	1.46	214.57
75	3.50	3.54	4.80	8.0	6.3	2.10	149.80
70	5.00	4.78	5.60	7.0	6.0	2.86	110.83
70	6.00	6.12	6.20	7.1	7.0	3.68	86.60
70	7.00	7.31	6.90	6.9	7.5	4.45	72.47
65	8.00	8.32	6.70	6.6	8.6	5.11	63.70
65	9.00	8.95	6.70	6.6	9.5	5.53	59.24
65	10.00	9.70	6.20	6.5	10.7	6.06	54.63

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Clear 1.74 SFSV UV 420 (uncoated & hardcoated)

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	PRESCRIPTION RANGE
MR-174	SPHERICAL	1.74	33	1.47	-18.00 TO +12.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
65	0.50	0.27	9.40	18.5	8.5	0.16	1962.96
65	1.00	1.04	9.40	16.8	7.5	0.61	509.62
70	1.50	1.57	8.20	15.5	7.0	0.93	337.58
75	2.50	2.47	6.90	12.5	6.1	1.46	214.57
75	3.50	3.54	4.80	8.0	6.3	2.10	149.80
70	5.00	4.78	5.60	7.0	6.0	2.86	110.83
70	6.00	6.12	6.20	7.1	7.0	3.68	86.60
70	7.00	7.31	6.90	6.9	7.5	4.45	72.47
65	8.00	8.32	6.70	6.6	8.6	5.11	63.70
65	9.00	8.95	6.70	6.6	9.5	5.53	59.24
65	10.00	9.70	6.20	6.5	10.7	6.06	54.63

* NOTE: AVAILABLE ON SPECIAL ORDER ONLY

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Clear 1.74 FT 28 Bifocal (hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	ADD RANGE	PRESCRIPTION RANGE
MR-174	1.74	33	1.47	1.00 - 3.50	-14.00 TO +8.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
65	0.75	0.72	9.42	15.1	5.5	5	5	0.42	736.11
70	2.25	2.16	7.02	12.8	6.7	5	5	1.28	245.37
70	3.50	3.59	4.81	8.7	7.1	5	5	2.13	147.63
70	5.00	4.79	4.81	7.8	7.7	5	5	2.86	110.65
65	6.25	6.14	4.81	7.6	9.1	5	5	3.70	86.32
65	7.25	7.30	4.81	7.4	10.2	5	5	4.44	72.60

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Polarized Lenses

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NUPOLAR®

1.50 Hard Resin

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Semi-finished single vision
SFSV-large diameter
Bifocal
Trifocal
Multifocal

1.53 Trilogy®

Finished single vision
Semi-finished single vision

1.59 Polycarbonate

Finished single vision
Semi-finished single vision
SFSV-large diameter
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1.60 MR-8

Semi-finished single vision

1.67 MR-10

Semi-finished single vision
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NUPOLAR®

GRADIENT
polarized lenses

1.50 Hard Resin

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NUPOLAR® Mirror

1.50 Hard Resin

Semi-finished single vision

1.59 Polycarbonate

Semi-finished single vision

NUPOLAR®

infinite

1.50 Hard Resin

Semi-finished single vision

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NuPolar® 1.50 FSV Plano (uncoated)

YoungerOptics Technical Specifications

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	CENTRE	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	DIAMETER	NOMINAL CURVE
HARD RESIN	POLARIZED	1.50	59	1.32	2.0	GREY 1 – 66 % GREY 3 – 84 % BROWN – 83 % GREEN 15 – 85 %	100 %	75 mm	6.25

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NuPolar® 1.50 SFSV (uncoated & hardcoated)

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	PRESCRIPTION RANGE
HARD RESIN	POLARIZED	1.50	59	GREY 1* – 66 % GREY 3 – 84 % BROWN – 83 % GREEN 15 – 85 %	100 %	-8.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
76	1.25	1.23	4.25	13.0	9.2	0.73	430.89
76	2.25	2.25	4.25	13.0	10.5	1.33	235.56
76	3.25	3.24	4.25	12.7	10.9	1.92	163.58
76	4.25	4.21	4.25	13.0	13.0	2.51	125.89
76	5.25	5.24	6.25	8.4	7.5	3.14	101.15
76	6.25	6.23	6.25	9.5	9.0	3.76	85.07
76	7.25	7.23	6.25	8.4	10.5	4.39	73.31
76	8.25	8.27	6.25	9.5	13.0	5.08	64.09

* GRAY 1 IS NOT AVAILABLE IN ODD BASES

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NuPolar® 1.50 SFSV (uncoated & hardcoated) - Large Diameter

YoungerOptics Technical Specifications

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	PRESCRIPTION RANGE
HARD RESIN	POLARIZED	1.50	59	GREY 3 – 84% BROWN – 83 %	GREEN 15 – 85% 100 %	-5.00 TO +6.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
80.5	4.25	4.18	4.25	14.2	13.8	2.51	126.74
80.5	6.25	6.21	6.25	10.6	10.3	3.75	85.35
80.5	8.25	8.21	6.25	11.2	14.7	5.04	64.56

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NuPolar® 1.50 FT28 Bifocal (uncoated* & hardcoated)

YoungerOptics **Technical Specifications**

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	POLARIZED	1.50	59	1.32	GREY 3 – 84 % BROWN – 83 %	100 %	0.75 - 4.00	-8.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
76	2.25	2.31	4.25	13.0	10.5	6	5	1.37	229.44
76	4.25	4.26	6.25	13.0	10.5	6	5	2.54	124.41
76	6.25	6.28	6.25	9.5	9.0	6	5	3.79	84.39
76	8.25	8.27	6.25	9.5	13.0	6	5	5.08	64.09

* Uncoated made to order

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NuPolar® 1.50 FT35 Bifocal (hardcoated)

YoungerOptics **Technical Specifications**

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	POLARIZED	1.50	59	1.32	GREY 3 – 84 %	100 %	0.75 - 4.00	-8.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
76	2.25	2.31	4.25	13.0	10.5	6	5	1.37	229.44
76	4.25	4.26	6.25	13.0	10.5	6	5	2.54	124.41
76	6.25	6.28	6.25	9.5	9.0	6	5	3.79	84.39
76	8.25	8.27	6.25	9.5	13.0	6	5	5.08	64.09

* Uncoated made to order

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NuPolar® 1.50 FT 7x28 Trifocal (hardcoated)

YoungerOptics Technical Specifications

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	POLARIZED	1.50	59	1.32	GREY 3 – 84 %	100 %	1.50 - 4.00	-5.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
80	4.25	4.26	6.25	14.0	10.5	4	4	2.54	124.41
80	6.25	6.28	6.25	9.5	9.5	4	4	3.79	84.39
80	8.25	8.27	6.25	9.0	13.0	4	4	5.08	64.09

* Uncoated made to order

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NuPolar® 1.50 Image® (uncoated* & hardcoated)

YoungerOptics Technical Specifications

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	MINIMUM FITTING HEIGHT	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	POLARIZED	1.50	59	1.32	18 mm	GREY 3 - 84 % BROWN - 84 %	100 %	1.00 - 3.00	-8.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	MRP DEC.	SEG INSET	FITTING CROSS ABOVE MRP	SAG AT 50	RADIUS
80	2.00	2.02	4.25	13.0	11.0	2.5	2.5	2	1.19	262.38
80	4.50	4.57	6.25	13.5	11.5	2.5	2.5	2	2.73	115.97
80	6.50	6.33	6.25	9.0	10.0	2.5	2.5	2	3.82	83.73
80	8.50	8.26	6.25	8.5	13.5	2.5	2.5	2	5.07	64.16

* Uncoated made to order

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NuPolar® Trilogy® FSV Plano (hardcoated)

YoungerOptics Technical Specifications

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	CENTRE	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	DIAMETER	NOMINAL CURVE
TRIVEX	POLARIZED	1.53	45	1.1	2.2	GREY 3 – 84 % BROWN – 83 %	100 %	75 mm	6.25

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NuPolar® Trilogy® SFSV (uncoated & hardcoated)

YoungerOptics **Technical Specifications**

MATERIAL	SPECIAL FEATURES	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	PRESCRIPTION RANGE
TRIVEX	POLARIZED	SPHERICAL	1.53	45	1.1	GREY 3 - 84 % BROWN -83 %	100 %	-7.00 TO +7.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
74	2.25	2.32	6.25	10.9	5.6	1.37	228.54
74	4.25	4.24	6.25	11.2	8.4	2.53	125.00
74	6.25	6.25	6.25	8.5	8.6	3.77	84.80
74	8.25	8.26	6.25	8.7	11.9	5.07	64.17

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NuPolar® Polycarbonate FSV Plano (uncoated)

YoungerOptics Technical Specifications

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	CENTRE	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	DIAMETER	NOMINAL CURVE
POLYCARBONATE	POLARIZED	1.59	32	1.21	2.0	GREY 3 – 84 % BROWN – 83% GREEN 15 – 86 %	100 %	76 mm	6.00 & 8.25

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NuPolar® Polycarbonate SFSV (hardcoated)

MATERIAL	GEOMETRY	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	PRESCRIPTION RANGE
POLYCARBONATE	SPHERICAL	POLARIZED	1.59	32	1.21	GREY 3 – 82 % BROWN – 81% GREEN 15 – 85 % (SEE NOTE) COPPER 81 % (SEE NOTE)	100 %	-9.50 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
76	0.50	0.53	4.25	14.0	8.5	0.31	1000.00
76	1.25	1.26	4.25	14.1	9.6	0.74	420.64
76	2.25	2.28	4.25	12.8	9.7	1.35	232.46
76	3.25	3.27	4.25	12.9	11.2	1.94	162.08
76	4.25	4.28	6.25	13.1	9.8	2.55	123.83
76	5.25	5.29	6.25	13.0	11.2	3.17	100.17
76	6.25	6.28	6.25	9.9	9.8	3.79	84.39
76	7.25	7.25	9.50	13.1	8.4	4.41	73.10
76	8.25	8.27	9.50	13.0	10.0	5.08	64.08

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NOTE

COPPER & GREEN ONLY AVAILABLE IN THE FOLLOWING NOMINAL CURVES:

0.50
2.25
4.25
6.25
8.25

NuPolar® Polycarbonate SFSV (hardcoated) Large Diameter

YoungerOptics **Technical Specifications**

MATERIAL	GEOMETRY	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	PRESCRIPTION RANGE
POLYCARBONATE	SPHERICAL	POLARIZED	1.59	32	1.21	GREY 3 – 82 % BROWN – 81%	100 %	-4.00 TO +6.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
80.5	6.25	6.24	6.25	9.9	9.9	3.79	84.94
80.5	8.25	8.27	9.50	13.3	10.1	5.08	64.09

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NuPolar® Polycarbonate FT28 Bifocal (hardcoated)

YoungerOptics **Technical Specifications**

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	ADD RANGE	PRESCRIPTION RANGE
POLYCARBONATE	POLARIZED	1.59	32	1.21	GREY 3 – 83 % BROWN – 78 %	100 %	1.00 - 3.00	-8.00 TO +6.25

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
75	2.25	2.23	4.25	12.7	9.5	6	5	1.32	237.67
75	4.25	4.24	6.25	12.7	9.5	6	5	2.53	125.00
75	6.25	6.28	6.25	9.8	9.7	6	5	3.79	84.40
75	8.25	8.25	9.50	11.9	8.5	6	5	5.07	64.24

* Uncoated made to order

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NuPolar® Polycarbonate Image® (hardcoated)

YoungerOptics Technical Specifications

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	ADD RANGE	PRESCRIPTION RANGE
POLYCARBONATE	POLARIZED	1.59	32	1.21	GREY 3 – 82 % BROWN – 81 %	100 %	1.00 - 3.00	-9.00 TO +7.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	MPR DEC.	SEG INSET	FITTING CROSS ABOVE MPR	SAG AT 50	RADIUS
76	2.00	2.00	4.25	14.0	11.0	3.5	2.5	2.0	1.18	265.00
76	4.50	4.28	6.25	14.0	12.0	3.5	2.5	2.0	2.55	123.83
76	6.50	6.28	6.25	9.5	11.0	3.5	2.5	2.0	3.79	84.39
76	8.50	8.28	9.50	10.5	9.0	3.5	2.5	2.0	5.08	64.01

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NuPolar® Polycarbonate Image® “Wrap” (hardcoated)

YoungerOptics Technical Specifications

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	ADD RANGE	PRESCRIPTION RANGE
POLYCARBONATE	POLARIZED	1.59	32	1.21	GREY 3 – 82%	100 %	1.00 - 3.00	-4.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	MPR DEC.	SEG. INSET	FITTING CROSS ABOVE MPR	SAG AT 50	RADIUS
76	8.50	8.28	9.50	10.5	9.0	7.0	2.5	2	5.08	64.01

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NuPolar® Polycarbonate Adage® (hardcoated)

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	MINIMUM FITTING HEIGHT	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	ADD RANGE	PRESCRIPTION RANGE
POLYCARBONATE	POLARIZED	1.59	32	1.21	13 mm	GREY 3 – 82 % BROWN – 85 %	100 %	1.00 - 3.00	-8.50 TO +5.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	MRP DEC	SEG INSERT	FITTING CROSS ABOVR MRP	SAG AT 50	RADIUS
76	2.00	2.00	4.25	13.8	11.2	2.5	2.5	2	1.19	262.38
76	4.00	4.01	6.25	14.0	11.2	2.5	2.5	2	2.39	132.17
76	6.00	5.85	6.25	10.6	10.5	2.5	2.5	2	3.52	90.60
76	8.00	7.72	9.60	10.9	8.0	2.5	2.5	2	4.71	68.65

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NuPolar® 1.60 SFSV (uncoated & hardcoated)

MATERIAL	SPECIAL FEATURES	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	PRESCRIPTION RANGE
MR-8	POLARIZED	SPHERICAL	1.60	42	1.30	GREY 3 – 85 % BROWN – 85% GREEN 15 – 86 %	100 %	-10.00 TO +8.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
75	1.25	1.24	6.25	14.3	7.4	0.73	427.42
75	2.25	2.24	6.25	14.0	8.4	1.32	236.60
75	3.25	3.25	6.25	14.1	10.0	1.93	163.08
75	4.25	4.19	6.25	14.0	11.0	2.50	126.49
75	5.25	5.28	6.25	14.0	12.7	3.16	100.38
75	6.25	6.18	6.25	9.5	9.4	3.72	85.76
75	7.25	7.29	6.25	9.6	11.0	4.43	72.70
75	8.25	8.21	6.25	9.5	12.7	5.04	64.56

* THE RANGE -8.00 TO -10.00 CAN BE ACHIEVED AFTER BLANK IS CRIBBED

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TO 65 MM DIAMETER

NuPolar® 1.67 SFSV (uncoated & hardcoated)

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	PRESCRIPTION RANGE
MR-10	POLARIZED	1.67	35	1.35	GREY 3 – 84 % BROWN –85 % GREEN 15 – 86%	100 %	-11.00 TO +8.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
75	1,25	1,39	6,40	14,3	7,5	0,82	380,87
75	2,25	2,39	6,42	14,4	8,8	1,41	221,54
75	3,25	3,37	6,37	14,3	10,0	2,00	157,09
75	4,25	4,27	6,35	14,3	11,5	2,54	124,22
75	5,25	5,35	6,34	9,4	8,0	3,21	99,03
75	6,25	6,28	6,31	9,3	9,3	3,79	84,44
75	7,25	7,33	6,33	9,5	11,2	4,48	72,31
75	8,25	8,26	6,26	9,4	12,7	5,07	64,16

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NuPolar® 1.67 SFSV (uncoated & hardcoated) - Large Diameter

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	PRESCRIPTION RANGE
MR-10	POLARIZED	1.67	35	1.35	GREY 3 – 84 % BROWN –85 %	100 %	-7.00 TO +9.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
80.5	4.25	4.18	6.25	14.5	10.6	2.49	126.79
80.5	6.25	6.20	6.25	10.4	10.4	3.74	85.48
80.5	8.25	8.20	6.25	11.4	14.9	5.03	64.63

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NuPolar® 1.67 FT 28 Bifocal (hardcoated)

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	ADD RANGE	PRESCRIPTION RANGE
MR-10	POLARIZED	1.67	35	1.35	GREY 3 – 84 % BROWN –85 %	100 %	1.50-3.00	-11.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
75	2.25	2.14	6.32	16.5	10.1	8	6	1.27	247.66
75	4.25	4.21	6.32	12.0	8.4	8	6	2.51	125.89
75	6.25	6.37	6.32	10.3	10.0	8	6	3.85	83.20

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NuPolar® SFSV 1.74 (uncoated & hardcoated)

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	PRESCRIPTION RANGE
MR-174	POLARIZED	1.74	33	1.47	GRAY 3 – 85 % BROWN – 85 %	100 %	-14.00 TO +9.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
70	0.50UC	0.58	6.29	14.5	7.0	0.34	908.57
70	0.50HC	0.51	6.29	14.5	7.0	0.30	1042.08
70	2.00	1.94	6.29	14.5	8.6	1.15	272.65
70	4.25	4.17	6.29	12.5	9.3	2.48	127.25
75	6.25	6.25	6.29	10.6	10.3	3.77	84.74
75	8.50	8.38	9.33	12.5	10.2	5.15	63.24

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NuPolar® Gradient Hard Resin SFSV

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	PRESCRIPTION RANGE
HARD RESIN	POLARIZED GRADIENT	1.50	59	1.32	GREY TO LIGHT GREY BROWN TO LIGHT GREY	100 %	-6.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
75	2.00	1.91	4.40	12.0	8.3	1.13	277.49
75	3.00	3.05	4.40	12.1	9.9	1.81	173.77
75	4.00	4.16	4.40	12.0	11.5	2.48	127.40
75	5.00	5.14	6.25	11.0	8.7	3.08	103.11
75	6.00	6.00	6.25	10.9	10.1	3.61	88.33
75	7.00	7.26	7.25	11.3	10.2	4.42	73.00
75	8.00	8.04	7.25	10.7	11.1	4.93	65.92

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NuPolar® Gradient Polycarbonate SFSV

YoungerOptics **Technical Specifications**

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	UV ABSORPTION	PRESCRIPTION RANGE
POLYCARBONATE	POLARIZED GRADIENT	1.59	32	1.21	GREY TO LIGHT GREY BROWN TO LIGHT BROWN BROWN TO LIGHT GREY	100 %	-5.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
76	4.25	4.28	6.25	13.1	9.8	2.55	123.83
76	6.25	6.28	6.25	9.9	9.8	3.79	84.39
76	8.25	8.27	9.50	13.0	10.0	5.08	64.08

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NuPolar® Mirrors Hard Resin SFSV (hardcoated)

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	PRESCRIPTION RANGE
HARD RESIN	POLARIZED	1.50	59	1.32	GRAY/BLUE MIRROR - 90% GRAY/SILVER MIRROR - 89% BROWN/GOLD MIRROR - 90%	100 %	-7.00 TO +5.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
75	2.00	1.88	4.25	12.6	8.6	1.11	283.59
75	3.00	3.05	4.50	12.5	10.1	1.81	174.40
75	4.00	4.12	4.50	12.7	11.6	2.45	128.97
75	5.00	5.06	6.25	11.4	8.9	3.03	105.06
75	6.00	6.00	6.25	11.2	10.1	3.61	88.43
75	7.00	7.22	7.25	10.1	9.0	4.39	73.69
75	8.00	8.02	7.25	9.8	10.0	4.91	66.20

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NuPolar® Mirrors Polycarbonate SFSV (hardcoated)

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	PRESCRIPTION RANGE
POLYCARBONATE	POLARIZED	1.59	32	1.21	GRAY/BLUE MIRROR - 90% GRAY/SILVER MIRROR - 89% BROWN/GOLD MIRROR - 90%	100 %	-8.00 TO +6.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
76	2.00	2.07	4.07	13.3	10.2	1.22	256.04
76	4.00	4.06	6.06	13.7	10.3	2.42	130.54
76	6.00	6.06	6.17	10.6	10.1	3.65	87.46
76	8.25	8.23	9.63	13.3	10.2	5.05	64.40

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NuPolar® Infinite™ 1.50 SFSV (uncoated)

YoungerOptics Technical Specifications

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION	PRESCRIPTION RANGE
HARD RESIN	POLARIZED PHOTOCHROMIC	1.50	59	1.32	LIGHTEST STATE - 65% DARKEST STATE - 91%	100 %	-8.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
76	1.25	1.23	4.25	13.0	9.2	0.73	430.89
76	2.25	2.25	4.25	13.0	10.5	1.33	235.56
76	3.25	3.24	4.25	12.7	10.9	1.92	163.58
76	4.25	4.21	4.25	13.0	13.0	2.51	125.89
76	5.25	5.24	6.25	8.4	7.5	3.14	101.15
76	6.25	6.23	6.25	9.5	9.0	3.76	85.07
76	7.25	7.23	6.25	8.4	10.5	4.39	73.31
76	8.25	8.27	6.25	9.5	13.0	5.08	64.09

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Photochromic Lenses

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Transitions®
Gen[®]S

1.50 Hard Resin

Finished single vision
Semi-finished single vision
Multifocal

1.53 Trilogy®

Semi-finished single vision

1.59 Polycarbonate

Finished single vision
Semi-finished single vision

1.60 MR-8

Finished single vision
Semi-finished single vision

1.67 MR-10

Finished single vision
Semi-finished single vision

1.74 MR-174

Semi-finished single vision

Style **COLORS**

1.50 Hard Resin

Semi-finished single vision

1.59 Polycarbonate

Semi-finished single vision

1.60 MR-8

Semi-finished single vision

1.67 MR-7

Semi-finished single vision

Transitions®

1.53 Trilogy

Bifocal

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MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
HARD RESIN	1.50	59	1.32	GREY BROWN

SPHERE	CYLINDER(-)								
	0.00	-0.25	-0.50	-0.75	-1.00	-1.25	-1.50	-1.75	-2.00
+4.00									
+3.75									
+3.50									
+3.25									
+3.00									
+2.75									
+2.50					65 mm				
+2.25									
+2.00									
+1.75									
+1.50									
+1.25									
+1.00									
+0.75									
+0.50									
+0.25									
0.00									
-0.25									
-0.50									
-0.75									
-1.00					70 mm				
-1.25									
-1.50									
-1.75									
-2.00									
-2.25									
-2.50									
-2.75									
-3.00									
-3.25									
-3.50									
-3.75									
-4.00									

65 mm
70 mm

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MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE (SPHERE+CYL)
HARD RESIN	PHOTOCHROMIC	1.50	59	1.32	GREY BROWN GRAPHITE GREEN	-11.00 TO +8.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
72	0.50	0.42	4.22	15.4	10.5	0.25	1261.90
76	2.00	1.96	2.03	16.0	15.9	1.16	270.10
76	3.50	3.48	2.03	15.9	18.0	2.06	152.45
76	4.25	4.25	4.22	14.0	14.0	2.53	124.70
76	5.25	5.19	4.22	9.6	11.1	3.11	102.03
76	6.25	6.19	6.33	12.9	12.8	3.73	85.68
76	7.25	7.22	6.33	11.2	12.8	4.39	73.45
72	8.75	8.73	6.33	8.6	12.0	5.39	60.69
72	10.50	10.31	6.33	9.1	15.3	6.49	51.41

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MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	ADD RANGE	PRESCRIPTION RANGE (SPHERE+CYL)
HARD RESIN	PHOTOCHROMIC	1.50	56	1.27	GREY BROWN	1.00 - 3.00	-8.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	MRP DEC.	SEG INSET	FITTING CROSS ABOVE MRP	SAG AT 50	RADIUS
78	2.00	2.02	4.25	15.0	12.5	2.5	2.5	2	1.19	262.38
78	4.50	4.57	6.25	14.5	13.0	2.5	2.5	2	2.73	115.97
78	6.50	6.33	6.25	9.5	10.0	2.5	2.5	2	3.82	83.73
78	8.50	8.34	6.25	9.0	14.0	2.5	2.5	2	5.12	63.55

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MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE (SPHERE+CYL)
TRIVEX [®]	PHOTOCHROMIC	1.53	45	1.10	GREY BROWN	-8.75 TO +7.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
76	1.25	1.25	4.25	14.4	10.8	0.74	424.00
76	2.25	2.26	4.25	14.6	12.3	1.34	234.51
76	3.25	3.26	4.25	14.3	13.4	1.93	162.58
76	4.25	4.23	4.25	14.5	14.8	2.52	126.30
76	5.25	5.35	6.25	7.7	6.8	3.21	99.07
76	6.25	6.27	6.25	7.4	8.1	3.78	84.53
76	7.25	7.34	6.25	7.5	9.8	4.47	72.21
76	8.25	8.28	6.25	7.3	11.3	5.08	64.01

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MATERIAL	REFRACTIVE INDEX	GEOMETRY	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
POLYCARBONATE	1.59	SPHERICAL	32	1.21	GREY BROWN

	CYLINDER(-)								
SPHERE	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
+0.25									
+0.50					70 mm				
+0.75									
+1.00									
+1.25									
+1.50									
+1.75									
+2.00									
+2.25									
+2.50									
+2.75					65 mm				
+3.00									
+3.25									
+3.50									
+3.75									
+4.00									

	CYLINDER(-)								
SPHERE	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
0.00									
-0.25									
-0.50									
-0.75									
-1.00									
-1.25									
-1.50									
-1.75									
-2.00									
-2.25									
-2.50									
-2.75					70 mm				
-3.00									
-3.25									
-3.50									
-3.75									
-4.00									
-4.25									
-4.50									
-4.75									
-5.00									
-5.25									
-5.50									
-5.75									
-6.00									

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 65 mm  70 mm

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE (SPHERE+CYL)
POLYCARBONATE	PHOTOCHROMIC	1.59	32	1.21	GREY BROWN	-10.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
75	0.50	0.58	4.25	13.2	8.8	0.34	906.95
75	1.25	1.30	4.25	13.4	9.9	0.77	407.19
75	2.25	2.31	4.25	12.2	10.0	1.37	229.14
75	3.25	3.31	4.25	12.4	11.6	1.96	160.17
75	4.25	4.32	6.18	12.5	10.6	2.57	122.68
75	5.25	5.31	6.18	12.5	12.1	3.18	99.87
75	6.25	6.30	6.18	8.6	9.7	3.80	84.13
75	7.25	7.30	9.70	11.4	8.5	4.44	72.56
75	8.25	8.28	9.50	11.4	10.2	5.09	63.98

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MATERIAL	REFRACTIVE INDEX	GEOMETRY	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
MR-8	1.60	SPHERICAL	42	1.30	GREY BROWN

SPHERE	CYLINDER(-)								
	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
+0.25									
+0.50									
+0.75									
+1.00									
+1.25									
+1.50									
+1.75									
+2.00									
+2.25									
+2.50									
+2.75					65 mm				
+3.00									
+3.25									
+3.50									
+3.75									
+4.00									
+4.25									
+4.50									
+4.75									
+5.00									
+5.25									
+5.50									
+5.75									
+6.00									

65 mm 70 mm 75 mm

SPHERE	CYLINDER(-)								
	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
0.00									
-0.25									
-0.50									
-0.75									
-1.00									
-1.25									
-1.50									
-1.75									
-2.00									
-2.25									
-2.50					75 mm				
-2.75									
-3.00									
-3.25									
-3.50									
-3.75									
-4.00									
-4.25									
-4.50									
-4.75									
-5.00									
-5.25									
-5.50									
-5.75									
-6.00									
-6.25									
-6.50									
-6.75									
-7.00									
-7.25					70 mm				
-7.50									
-7.75									
-8.00									

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MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE (SPHERE+CYL)
MR-8	PHOTOCHROMIC	1.60	41	1.30	GREY BROWN GRAPHITE GREEN	-15.00 TO +13.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
73	0.50	0.53	6.31	15.4	7.9	0.31	997.43
73	1.25	0.89	6.31	14.6	7.4	0.53	592.18
73	2.25	1.78	6.31	15.4	9.4	1.05	297.33
73	3.25	3.01	6.31	12.9	8.3	1.78	176.07
73	4.25	3.92	5.60	12.2	9.8	2.33	135.04
73	5.25	4.95	5.60	10.2	9.2	2.96	107.15
73	6.25	5.86	5.60	9.1	9.3	3.53	90.39
73	7.25	6.93	5.60	8.1	9.6	4.20	76.53
73	8.25	7.87	4.21	9.0	11.8	4.81	67.33
70	9.25	8.95	8.29	9.7	10.3	5.53	59.24
70	10.25	9.99	8.29	10.4	12.7	6.26	53.05

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MATERIAL	REFRACTIVE INDEX	ASPHERIC	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
MR-10	1.67	ASPHERIC	35	1.35	GREY BROWN

	CYLINDER(-)								
SPHERE	0.00	-0.25	-0.50	-0.75	-1.00	-1.25	-1.50	-1.75	-2.00
-2.00									
-2.25									
-2.50									
-2.75									
-3.00									
-3.25									
-3.50									
-3.75				80mm					
-4.00									
-4.25									
-4.50									
-4.75									
-5.00									
-5.25									
-5.50									
-5.75									
-6.00									
-6.25									
-6.50				75mm					
-6.75									
-7.00									
-7.25									
-7.50							70mm		
-7.75									
-8.00									

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70 mm
 75 mm
 80 mm

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE (SPHERE+CYL)
MR-10	PHOTOCHROMIC	1.67	31	1.37	GREY BROWN GRAPHITE GREEN	-12.00 TO +11.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
74	1.00	1.07	6.11	16.0	9.0	0.63	495.33
74	2.00	1.83	6.11	16.0	10.3	1.08	289.62
74	3.00	3.12	6.11	13.5	9.5	1.84	169.87
74	4.00	4.11	6.11	13.5	10.5	2.45	128.95
74	5.00	5.10	6.11	12.0	10.5	3.05	103.92
74	6.00	6.10	6.11	10.5	10.5	3.67	86.89
74	7.00	7.59	6.11	8.5	10.7	4.63	69.83
70	9.00	9.04	6.93	8.4	11.5	5.60	58.63
65	12.00	11.96	8.09	5.0	10.5	7.73	44.31

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MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE (SPHERE+CYL)
MR-174	PHOTOCHROMIC	1.74	33	1.47	GREY BROWN	-15.00 TO +12.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
65	0.50	0.27	9.4	18.5	8.5	0.16	1962.96
65	1.00	1.04	9.4	16.8	7.5	0.61	509.62
70	1.50	1.57	8.2	15.5	7.0	0.93	337.58
75	2.50	2.47	6.9	12.5	6.1	1.46	214.58
75	3.50	3.54	4.8	8.0	6.3	2.10	149.72
70	5.00	4.78	5.6	7.0	6.0	2.86	110.88
70	6.00	6.12	6.2	7.1	7.0	3.68	88.60
70	7.00	7.31	6.9	6.9	7.5	4.45	72.50
65	8.00	8.32	6.7	6.6	8.6	5.11	63.70
65	9.00	8.95	6.7	6.6	9.5	5.53	59.22
65	10.00	9.70	6.2	6.5	10.7	6.06	54.64

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MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE (SPHERE+CYL)
HARD RESIN	PHOTOCHROMIC	1.50	59	1.32	AMBER AMETHYST EMERALD SAPPHIRE RUBY	-11.00 TO +8.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
72	0.50	0.42	4.22	15.4	10.5	0.25	1261.90
76	2.00	1.96	2.03	16.0	15.9	1.16	270.10
76	3.50	3.48	2.03	15.9	18.0	2.06	152.45
76	4.25	4.25	4.22	14.0	14.0	2.53	124.70
76	5.25	5.19	4.22	9.6	11.1	3.11	102.03
76	6.25	6.19	6.33	12.9	12.8	3.73	85.68
76	7.25	7.22	6.33	11.2	12.8	4.39	73.45
72	8.75	8.73	6.33	8.6	12.0	5.39	60.69
72	10.50	10.31	6.33	9.1	15.3	6.49	51.41

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MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE (SPHERE+CYL)
POLYCARBONATE	PHOTOCHROMIC	1.59	32	1.21	AMBER RUBY SAPPHIRE AMETHYST EMERALD GRAPHITE GREEN	-8.00 TO +7.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
79	1.50	1.61	6.10	15.9	8.7	0.95	329.50
79	3.25	3.16	6.10	13.5	8.7	1.87	167.81
79	4.25	4.27	6.10	12.2	9.1	2.55	124.05
79	4.75	4.76	6.10	11.0	8.7	2.84	111.36
79	5.50	5.39	6.10	10.9	9.6	3.23	98.40
79	7.00	7.02	7.46	10.8	9.9	4.26	75.50
74	7.50	7.51	6.10	6.8	9.0	4.58	70.53
74	8.50	8.55	7.46	8.1	10.0	5.27	61.96

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MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE (SPHERE+CYL)
MR-8	PHOTOCHROMIC	1.60	41	1.30	AMBER AMETHYST EMERALD SAPPHIRE RUBY	-15.00 TO +8.75

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
80	1.75	1.70	5.50	17.3	11.2	1.00	312.88
80	2.75	2.59	6.40	12.6	6.5	1.53	205.34
80	3.75	3.65	6.40	12.3	7.6	2.17	145.21
80	4.75	4.34	4.64	10.0	9.4	2.58	122.43
80	6.00	5.58	4.64	9.2	10.7	3.35	94.90
80	6.75	6.75	5.50	10.7	12.3	4.09	78.52
76	8.50	8.49	6.40	10.1	13.0	5.23	62.40

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MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE (SPHERE+CYL)
MR-10	PHOTOCHROMIC	1.67	31	1.37	AMBER AMETHYST EMERALD SAPPHIRE RUBY	-11.00 TO +9.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
80	1.75	1.69	5.54	17.3	11.2	0.99	316.67
80	2.75	2.60	6.46	12.9	6.5	1.53	205.25
80	3.75	3.67	5.54	10.3	7.2	2.17	145.20
80	4.75	4.34	4.68	10.0	9.4	2.58	122.47
80	6.00	5.59	4.68	9.2	10.7	3.35	95.00
81	6.75	6.75	5.50	9.4	11.1	4.09	78.52
81	8.00	8.00	6.40	9.1	11.9	4.89	66.37

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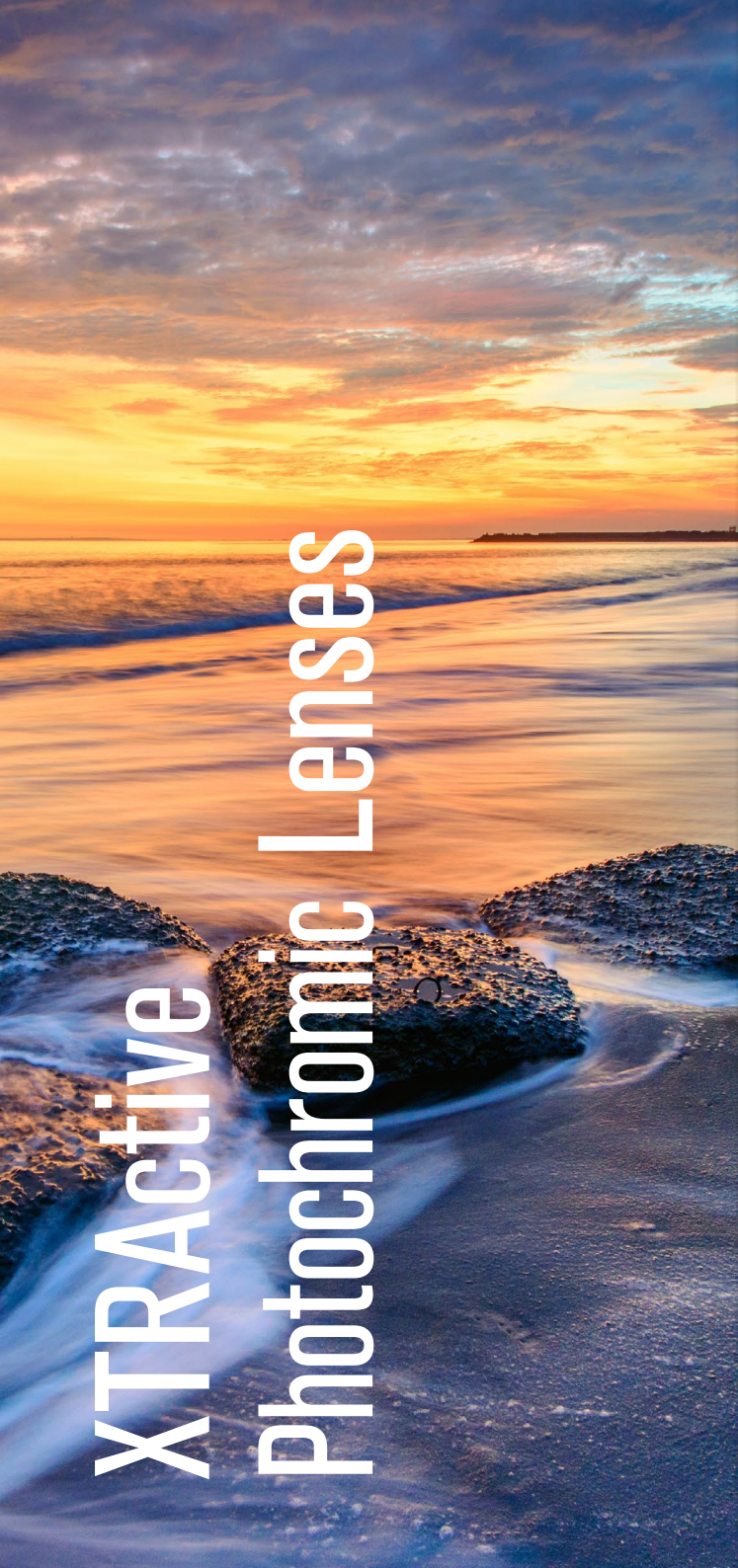
Transitions™ Trilogy® FT28 Bifocal (hardcoated)

YoungerOptics Technical Specifications

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	ADD RANGE	PRESCRIPTION RANGE
TRIVEX®	1.53	45	1.1	GREY BROWN	1.00 – 3.50	-9.00 TO +7.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG DROP	SEG INSET	SAG AT 50	RADIUS
74	2.25	2.31	4.25	14.0	12.5	5.0	6.0	1.37	229.44
74	4.25	4.33	6.25	14.5	12.0	5.0	6.0	2.58	122.40
74	6.25	6.34	6.25	8.0	8.0	5.0	6.0	3.82	83.59
74	8.25	8.36	6.25	8.5	11.5	5.0	6.0	5.14	63.39

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XTRActive Photochromic Lenses

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Transitions™
XTRACTIVE®
NEW GENERATION

- 1.50 Hard Resin**
 - Finished single vision
 - Semi-finished single vision
- 1.53 Trilogy®**
 - Semi-finished single vision
- 1.59 Polycarbonate**
 - Finished single vision
 - Semi-finished single vision
 - Multifocal
- 1.60 MR-8**
 - Finished single vision
 - Semi-finished single vision
- 1.67 MR-10**
 - Semi-finished single vision
- 1.74 MR-174**
 - Semi-finished single vision

Transitions™ XTRActive®

- 1.50 Hard Resin**
 - Bifocal
 - Trifocal
- 1.53 Trilogy®**
 - Multifocal

Transitions™
XTRACTIVE®
POLARIZED

- 1.50 Hard Resin**
 - Semi-finished single vision
- 1.53 Trilogy®**
 - Semi-finished single vision
- 1.59 Polycarbonate**
 - Semi-finished single vision
- 1.60 MR-8**
 - Semi-finished single vision
- 1.67 MR-10**
 - Semi-finished single vision

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1.50 FSV (uncoated* & hardcoated)

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE
HARD RESIN	1.50	59	1.32	GREY BROWN*	-4.00 TO +4.00

SPHERE	CYLINDER(-)								
	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
4.00									
3.75									
3.50									
3.25									
3.00									
2.75					65 mm				
2.50									
2.25									
2.00									
1.75									
1.50									
1.25									
1.00									
0.75									
0.50									
0.25									
0.00									
-0.25									
-0.50									
-0.75					70 mm				
-1.00									
-1.25									
-1.50									
-1.75									
-2.00									
-2.25									
-2.50									
-2.75									
-3.00									
-3.25									
-3.50									
-3.75									
-4.00									

65 mm
70 mm

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*MADE TO ORDER

1.50 SFSV (uncoated & hardcoated)

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE
HARD RESIN	SPHERICAL	1.50	59	1.32	GREY BROWN	-9.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
72	0.50	0.44	4.00	13.5	9.0	0.26	1217.07
72	2.25	2.09	4.00	11.4	9.0	1.24	253.30
72	4.25	4.29	4.00	8.1	8.5	2.56	123.51
72	5.25	5.25	6.00	9.5	8.5	3.14	101.01
72	6.25	6.20	6.00	8.2	8.5	3.74	85.45
72	8.25	8.26	6.00	6.0	9.4	5.07	64.10

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1.50 SFDS Digital Surfacing (uncoated & hardcoated)

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE
HARD RESIN	SPHERICAL	1.50	59	1.32	GREY BROWN GRAPHITE GREEN	-10.00 TO +8.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
72	0.50	0.42	4.22	15.4	10.5	0.25	1261.90
76	2.00	1.96	2.03	16.0	16.7	1.16	270.10
76	3.50	3.48	2.03	15.9	18.8	2.06	152.45
76	4.25	4.25	4.22	14.0	14.8	2.53	124.70
76	5.25	5.19	4.22	9.6	11.9	3.11	102.03
76	6.25	6.19	6.33	12.9	13.6	3.73	85.68
76	7.25	7.22	6.33	11.2	13.6	4.39	73.45
72	8.75	8.73	6.33	8.6	12.0	5.39	60.69
72	10.50	10.31	6.33	9.1	15.3	6.49	51.41

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MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE
TRIVEX®	SPHERICAL	1.53	45	1.1	GREY BROWN	-8.00 TO +7.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
76	1.25	1.25	4.25	14.4	10.8	0.74	424.00
76	2.25	2.26	4.25	14.6	12.3	1.34	234.51
76	3.25	3.26	4.25	14.3	13.4	1.93	162.58
76	4.25	4.23	4.25	14.5	14.8	2.52	125.30
76	5.25	5.35	6.25	7.7	6.8	3.21	99.07
76	6.25	6.27	6.25	7.4	8.1	3.77	84.53
76	7.25	7.34	6.25	7.5	9.8	4.46	72.21
76	8.25	8.28	6.25	7.3	11.3	5.09	64.01

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MATERIAL	REFRACTIVE INDEX	GEOMETRY	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
POLYCARBONATE	1.59	SPHERICAL	32	1.21	GREY

	CYLINDER(-)								
SPHERE	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
+0.25									
+0.50					70 mm				
+0.75									
+1.00									
+1.25									
+1.50									
+1.75									
+2.00									
+2.25									
+2.50									
+2.75					65 mm				
+3.00									
+3.25									
+3.50									
+3.75									
+4.00									

	CYLINDER(-)								
SPHERE	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
0.00									
-0.25									
-0.50									
-0.75									
-1.00									
-1.25									
-1.50									
-1.75									
-2.00									
-2.25									
-2.50									
-2.75					70 mm				
-3.00									
-3.25									
-3.50									
-3.75									
-4.00									
-4.25									
-4.50									
-4.75									
-5.00									
-5.25									
-5.50									
-5.75									
-6.00									

 65 mm  70 mm

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*MADE TO ORDER

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE
POLYCARBONATE	SPHERICAL	1.59	32	1.21	GREY BROWN	-9.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
75	0.50	0.54	4.25	13.2	8.8	0.32	981.48
75	1.25	1.26	4.25	13.4	9.9	0.74	420.64
75	2.25	2.26	4.25	12.2	10.0	1.34	234.51
75	3.25	3.26	4.25	12.4	11.6	1.93	162.58
75	4.25	4.27	6.25	12.5	10.6	2.54	124.12
75	5.25	5.26	6.25	12.5	12.1	3.15	100.76
75	6.25	6.28	6.25	8.6	9.7	3.79	84.39
75	7.25	7.27	9.50	11.4	8.5	4.42	72.90
75	8.25	8.26	9.50	11.4	10.2	5.07	64.17

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MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	MINIMUM FITTING HEIGHT	COLOURS	ADD RANGE	PRESCRIPTION RANGE
POLYCARBONATE	1.59	32	1.21	18mm	GREY	1.00 - 3.00	-9.00 TO +7.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	MPR DEC.	SEG INSET	FITTING CROSS ABOVE MPR	SAG AT 50	RADIUS
75	2.00	2.02	4.25	12.0	11.0	3.5	2.5	2	1.19	262.38
75	4.50	4.30	6.25	12.0	11.5	3.5	2.5	2	2.56	123.26
75	6.50	6.28	6.25	10.5	11.5	3.5	2.5	2	3.79	84.40
75	8.50	8.27	9.50	10.5	10.0	3.5	2.5	2	5.08	64.09

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MATERIAL	REFRACTIVE INDEX	GEOMETRY	ABBE VALUE	SPECIFIC GRAVITY	COLOURS
MR-8	1.60	SPHERICAL	42	1.30	GREY

SPHERE	CYLINDER(-)								
	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
+0.25									
+0.50									
+0.75									
+1.00									
+1.25									
+1.50									
+1.75									
+2.00									
+2.25									
+2.50									
+2.75				65 mm					
+3.00									
+3.25									
+3.50									
+3.75									
+4.00									
+4.25									
+4.50									
+4.75									
+5.00									
+5.25									
+5.50									
+5.75									
+6.00									

65 mm 70 mm 75 mm

SPHERE	CYLINDER(-)								
	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
0.00									
-0.25									
-0.50									
-0.75									
-1.00									
-1.25									
-1.50									
-1.75									
-2.00									
-2.25									
-2.50									
-2.75					75 mm				
-3.00									
-3.25									
-3.50									
-3.75									
-4.00									
-4.25									
-4.50									
-4.75									
-5.00									
-5.25									
-5.50									
-5.75									
-6.00									
-6.25									
-6.50									
-6.75			70 mm						
-7.00									
-7.25									
-7.50									
-7.75									
-8.00									

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*MADE TO ORDER

1.60 SFSV (uncoated & hardcoated)

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE
MR8	SPHERICAL	1.60	42	1.30	GREY BROWN	-11.00 TO +9.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
73	0.50	0.58	6.38	15.1	7.4	0.34	913.79
73	1.25	0.95	6.38	14.2	7.0	0.56	557.90
73	2.25	1.82	6.38	15.1	9.0	1.08	291.21
73	3.25	3.05	6.38	12.6	8.0	1.81	173.77
73	4.25	3.98	5.68	12.0	9.6	2.37	133.17
73	5.25	4.96	5.68	10.0	9.0	2.97	106.86
73	6.25	5.88	5.68	8.9	9.2	3.54	90.14
73	7.25	6.91	5.68	7.7	9.5	4.19	76.70
73	8.25	7.88	5.68	8.2	11.5	4.82	67.26
70	9.25	9.02	8.38	8.5	10.0	5.58	58.76
70	10.25	10.03	8.38	9.5	12.5	6.29	52.84

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MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE
MR-10	SPHERICAL	1.67	35	1.35	GREY BROWN	-12.00 TO +11.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50 FRONT	RADIUS
74	1.00	1.07	6.11	16.0	9.0	0.63	495.33
74	2.00	1.83	6.11	16.0	10.3	1.08	289.62
74	3.00	3.12	6.11	13.5	9.5	1.85	169.87
74	4.00	4.11	6.11	13.5	10.5	2.45	128.95
74	5.00	5.10	6.11	12.0	10.5	3.05	103.92
74	6.00	6.10	6.11	10.5	10.5	3.67	86.89
74	7.00	7.59	6.11	8.5	10.7	4.63	69.83
70	9.00	9.04	6.93	8.4	11.5	5.60	58.63
65	12.00	11.96	8.09	5.0	10.5	7.73	44.31

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MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE
MR-174	SPHERICAL	1.74	33	1.47	GREY BROWN	-15.00 TO +12.00

DIAMETER	BASE CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
65	0.50	0.27	9.40	18.5	8.5	0.16	1942.10
65	1.00	1.04	9.40	16.8	7.5	0.61	511.81
70	1.50	1.57	8.20	15.5	7.0	0.93	338.07
75	2.50	2.47	6.90	12.5	6.1	1.46	214.87
75	3.50	3.54	4.80	8.0	6.3	2.10	149.80
70	5.00	4.78	5.60	7.0	6.0	2.86	110.83
70	6.00	6.12	6.20	7.1	7.0	3.68	86.60
70	7.00	7.31	6.90	6.9	7.5	4.45	72.47
65	8.00	8.32	6.70	6.6	8.6	5.11	63.70
65	9.00	8.95	6.70	6.6	9.5	5.53	59.24
65	10.00	9.70	6.20	6.5	10.7	6.06	54.63

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Transitions™ 1.50 FT28 Bifocal (uncoated* & hardcoated)

XTRActive®

YoungerOptics Technical Specifications

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	1.50	59	1.32	GREY BROWN	1.00 - 3.00	-11.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
76	0.50	0.40	4.00	16.0	10.6	6	6	0.24	1325.00
76	2.25	2.09	4.00	13.5	10.6	6	6	1.23	253.59
76	4.25	4.30	4.00	10.5	10.6	6	6	2.56	123.26
76	6.25	6.21	6.00	9.0	8.7	6	6	3.74	85.35
76	8.25	8.26	6.00	9.0	12.3	6	6	5.07	64.17

* Uncoated made to order

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Transitions™ XTRActive® 1.50 FT 7x28 Trifocal (hardcoated)

YoungerOptics Technical Specifications

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	ADD RANGE	PRESCRIPTION RANGE
HARD RESIN	1.50	59	1.32	GREY	1.50 - 4.00	-5.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SEG INSET	SEG DROP	SAG AT 50	RADIUS
78	4.25	4.26	6.25	14.5	11.5	4	4	2.52	124.41
78	6.25	6.28	6.25	9.5	9.5	4	4	3.77	84.39
78	8.25	8.31	6.25	9.5	13.0	4	4	5.08	63.78

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MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	MINIMUM FITTING HEIGHT	COLOURS	ADD RANGE	PRESCRIPTION RANGE
TRIVEX®	1.53	45	1.1	18mm	GREY	1.00 - 3.00	-8.00 TO +8.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	MRP DEC.	SEG. INSET	FITTING CROSS ABOVE MRP	SAG AT 50	RADIUS
76	2.00	2.09	6.25	14.0	9.0	2.5	2.5	2	1.24	253.59
76	4.50	4.61	6.25	14.0	13.0	2.5	2.5	2	2.75	114.97
76	6.50	6.33	6.25	8.0	9.0	2.5	2.5	2	3.82	83.73
76	8.50	8.30	6.25	8.0	12.0	2.5	2.5	2	5.10	63.86

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MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE
HARD RESIN	SPHERICAL	1.50	59	1.32	GREY	-11.00 TO +6.75

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
72	0.50	0.42	4.22	15.4	10.5	0.25	1261.90
76	2.00	1.96	2.03	16.0	15.9	1.16	270.10
76	3.50	3.48	2.03	15.9	18.0	2.06	152.45
76	4.25	4.25	4.22	14.0	14.0	2.53	124.71
76	5.25	5.19	4.22	9.6	11.1	3.11	102.04
76	6.25	6.19	6.33	12.9	12.8	3.73	85.68
76	7.25	7.22	6.33	11.2	12.8	4.39	73.45
72	8.75	8.73	6.33	8.6	12.0	5.39	60.69

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MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE
TRIVEX®	SPHERICAL	1.53	45	1.1	GREY	-8.75 TO +7.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
75	1.25	1.25	4.25	14.4	10.8	0.74	424.00
75	2.25	2.26	4.25	14.6	12.3	1.34	234.51
75	3.25	3.26	4.25	14.3	13.4	1.93	162.58
75	4.25	4.23	4.25	14.5	14.8	2.52	125.30
75	5.25	5.35	6.25	7.7	6.8	3.21	99.07
75	6.25	6.27	6.25	7.4	8.1	3.77	84.53
75	7.25	7.34	6.25	7.5	9.8	4.46	72.21
75	8.25	8.28	6.25	7.3	11.3	5.09	64.01

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MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE
POLYCARBONATE	SPHERICAL	1.59	32	1.21	GREY	-9.00 TO +6.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
75	0.50	0.54	4.25	13.2	8.8	0.32	981.48
75	1.25	1.26	4.25	13.4	9.9	0.74	420.64
75	2.25	2.26	4.25	12.2	10.0	1.34	234.51
75	3.25	3.26	4.25	12.4	11.6	1.93	162.58
75	4.25	4.27	6.25	12.5	10.6	2.54	124.12
75	5.25	5.26	6.25	12.5	12.1	3.15	100.76
75	6.25	6.28	6.25	8.6	9.7	3.79	84.39
75	7.25	7.27	9.50	11.4	8.5	4.42	72.90
75	8.25	8.26	9.50	11.4	10.2	5.07	64.17

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MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE
MR-8	SPHERICAL	1.60	42	1.30	GREY	-15.00 TO +8.75

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
73	0.50	0.58	6.38	15.1	7.4	0.34	913.79
73	1.25	0.95	6.38	14.2	7.0	0.56	557.90
73	2.25	1.82	6.38	15.1	9.0	1.08	291.21
73	3.25	3.05	6.38	12.6	8.0	1.81	173.77
73	4.25	3.98	5.68	12.0	9.6	2.37	133.17
73	5.25	5.01	5.68	10.0	9.0	3.00	105.79
73	6.25	5.93	5.68	8.9	9.2	3.57	89.38
73	7.25	6.97	5.68	7.7	9.5	4.23	76.04
73	8.25	7.93	5.68	8.2	11.5	4.85	66.84

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MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	PRESCRIPTION RANGE
MR-10	SPHERICAL	1.67	35	1.35	GREY	-12.00 TO +8.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50 FRONT	RADIUS
74	1.00	1.07	6.11	16.0	9.0	0.63	495.33
74	2.00	1.83	6.11	16.0	10.3	1.08	289.62
74	3.00	3.12	6.11	13.5	9.5	1.85	169.87
74	4.00	4.11	6.11	13.5	10.5	2.45	128.95
74	5.00	5.10	6.11	12.0	10.5	3.05	103.92
74	6.00	6.10	6.11	10.5	10.7	3.67	86.89
74	7.00	7.59	6.11	8.5	10.7	4.63	69.83

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MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	UV ABSORPTION	LIGHT ABSORPTION	PRESCRIPTION RANGE
HARD RESIN	PHOTOCHROMIC POLARIZED	1.50	59	1.32	100 %	INACTIVE 65 % ACTIVE IN CAR 78 % ACTIVE OUTSIDE 88 %	-7.00 TO +7.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
74	1.25	1.28	4.25	12.7	9.3	0.75	414.06
74	2.25	2.30	4.25	13.0	10.5	1.36	230.44
74	3.25	3.31	4.25	12.8	11.9	1.96	160.12
74	4.25	4.30	4.25	13.0	13.0	2.56	123.26
74	5.25	5.30	6.25	9.2	7.5	3.17	100.00
74	6.25	6.35	6.25	9.5	9.0	3.83	83.47
74	7.25	7.32	6.25	9.5	10.6	4.45	72.40
74	8.25	8.35	6.25	10.0	13.0	5.14	63.47

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MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	UV ABSORPTION	LIGHT ABSORPTION	DIAMETER	NOMINAL CURVE
TRIVEX	PHOTOCHROMIC POLARIZED	1.53	45	1.1	100 %	INACTIVE 65 % ACTIVE IN CAR 78 % ACTIVE OUTSIDE 88 %	74 mm	6.25

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MATERIAL	SPECIAL FEATURES	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	UV ABSORPTION	LIGHT ABSORPTION	PRESCRIPTION RANGE
TRIVEX®	PHOTOCHROMIC POLARIZED	SPHERICAL	1.53	45	1.1	100%	INACTIVE 65 % ACTIVE IN CAR 78 % ACTIVE OUTSIDE 88 %	-7.00 TO + 7.50

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
74	2.25	2.26	6.25	11.6	6.1	1.34	234.51
74	4.25	4.24	6.25	12.0	8.9	2.53	125.00
74	6.25	6.25	6.25	9.3	9.1	3.77	84.80
74	8.25	8.26	6.25	9.7	12.6	5.07	64.17

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MATERIAL	SPECIAL FEATURES	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	UV ABSORPTION	LIGHT ABSORPTION	PRESCRIPTION RANGE
POLYCARBONATE	PHOTOCHROMIC POLARIZED	SPHERICAL	1.59	32	1.21	100 %	INACTIVE 65 % ACTIVE IN CAR 78 % ACTIVE OUTSIDE 88 %	-8.00 TO +6.00

DIAMETER	NOMINAL BASE CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
75	2.25	2.28	4.25	12.5	9.6	1.35	232.46
75	4.25	4.28	6.25	12.4	9.7	2.55	123.83
75	6.25	6.31	6.25	9.6	9.7	3.80	83.99
75	8.25	8.24	9.50	13.0	10.1	5.06	64.32

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MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	MINIMUM FITTING HEIGHT	UV ABSORPTION	LIGHT ABSORPTION	ADD RANGE	PRESCRIPTION RANGE
POLYCARBONATE	PHOTOCHROMIC POLARIZED	1.59	32	1.21	18 mm	100 %	INACTIVE 65 % ACTIVE IN CAR 78 % ACTIVE OUTSIDE 88 %	1.00 - 3.00	-9.00 TO +7.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	MRP DEC.	SEG INSET	FITTING CROSS ABOVE MRP	SAG AT 50	RADIUS
75	2.00	2.05	4.25	13.3	11.0	3.5	2.5	2	1.21	258.54
75	4.50	4.32	6.25	13.5	11.4	3.5	2.5	2	2.57	122.69
75	6.50	6.28	6.25	10.0	11.0	3.5	2.5	2	3.79	84.39
75	8.50	8.30	9.50	10.6	9.1	3.5	2.5	2	5.10	63.85

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MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	UV ABSORPTION	LIGHT ABSORPTION	PRESCRIPTION RANGE
MR-10	PHOTOCHROMIC POLARIZED	1.67	35	1.35	100 %	INACTIVE 65 % ACTIVE IN CAR 78 % ACTIVE OUTSIDE 88 %	-10.00 TO +9.00

DIAMETER	NOMINAL CURVE	TRUE CURVE	BACK CURVE	EDGE THICKNESS(MM)	CENTRE THICKNESS(MM)	SAG AT 50	RADIUS
75	2.25	2.37	4.40	14.3	11.9	1.4	223.63
75	4.25	4.29	4.41	14.4	14.3	2.55	123.49
75	6.25	6.28	4.36	14.1	17.2	3.79	84.39
75	8.25	8.27	6.32	9.2	12.4	5.08	64.07

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Unit 6

9-13 Ridley Street

Hindmarsh SA 5007

Phone: 08 8241 9800

e-mail: info@youngeroptics.com.au web: www.youngeroptics.com.au

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