

Clear ophthalmic
Lenses



Transitions® Photochromic
Lenses



NuPolar® Polarized
Lenses



Drivewear® Polarized
Photochromic Lenses



Clear Camber Lenses

Clear Camber ophthalmic Lenses

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Clear 1.50 Camber (uncoated & hardcoated)



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

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
76	0.50	0.81	4.25	653.51	11.7	16.0
76	2.00	2.42	4.25	219.10	13.8	16.0
76	3.00	3.48	6.25	152.43	12.4	16.0
76	4.00	4.81	6.25	110.12	10.4	11.7
76	5.00	5.87	6.25	90.24	12.0	11.7
76	6.00	6.96	6.25	76.16	9.5	7.7
76	7.00	8.02	6.25	66.13	11.2	7.5
76	8.00	9.08	6.25	58.40	13.0	7.5

Clear 1.53 Trilogy® Camber (uncoated & hardcoated)



YoungerOptics **Technical Specifications 2020**

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

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
76	0.50	0.78	4.25	678.62	10.1	14.5
76	2.00	2.40	6.25	220.65	8.9	14.4
76	3.00	3.48	6.25	152.30	10.4	14.3
76	4.00	4.83	6.25	109.75	12.3	14.3
76	5.00	5.93	6.25	89.33	9.3	9.6
76	6.00	6.99	6.25	75.88	10.8	9.6
76	7.00	8.07	6.25	65.69	10.8	7.5
76	8.00	9.17	6.25	57.78	12.7	7.5

Clear 1.59 Polycarbonate Camber (hardcoated)



YoungerOptics **Technical Specifications 2020**

MATERIAL	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY
POLYCARBONATE	1.586	32	1.21

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
76.0	0.50	0.69	4.25	768.116	8.0	11.7
76.0	2.00	2.04	4.25	259.804	10.0	11.7
76.0	3.00	2.95	4.25	179.661	11.3	11.8
76.0	4.00	4.10	6.25	129.268	10.7	12.1
76.0	5.00	4.99	6.25	106.212	8.2	8.0
76.0	6.00	5.90	6.25	89.831	9.6	8.4
76.0	7.00	6.80	7.69	77.941	9.1	8.4
76.0	8.00	7.71	7.69	68.742	10.5	8.1

Clear 1.60 Camber (uncoated & hardcoated)



YoungerOptics **Technical Specifications 2020**

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	UV ABSORPTION
MR-8	SPHERICAL	1.60	42	1.3	100 %

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
76	0.50	0.75	6.25	703.85	7.3	14.5
76	2.00	2.27	6.25	233.27	9.3	14.4
76	3.00	3.29	6.25	161.24	10.7	14.4
76	4.00	4.54	6.25	116.82	12.4	14.5
76	5.00	5.55	6.25	95.55	13.8	14.9
76	6.00	6.56	6.25	80.81	10.6	9.9
76	7.00	7.57	6.25	70.04	12.2	9.7
76	8.00	8.59	6.25	61.71	13.9	9.8

Clear 1.67 Camber (uncoated & hardcoated)



YoungerOptics **Technical Specifications 2020**

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	UV ABSORPTION
MR-10	SPHERICAL	1.67	31	1.37	100 %

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
76	0.50	0.72	6.25	733.06	7.6	14.8
76	2.00	2.26	6.25	235.03	9.6	14.8
76	3.00	3.27	6.25	162.03	11.0	14.8
76	4.00	4.49	6.25	118.12	12.7	14.8
76	5.00	5.49	6.25	96.50	14.2	14.8
76	6.00	6.50	6.25	81.51	10.9	9.8
76	7.00	7.53	6.25	70.40	12.7	9.8
76	8.00	8.53	6.25	62.12	14.4	9.8

Clear 1.67 UV 420 Camber (uncoated & hardcoated)



YoungerOptics **Technical Specifications 2020**

MATERIAL	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	UV ABSORPTION	HARMFUL BLUE LIGHT PROTECTION 380 - 420 nm
MR-10	SPHERICAL	1.67	31	1.37	100 %	100 %

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
76	0.50	0.72	6.25	733.06	7.6	14.8
76	2.00	2.26	6.25	235.03	9.6	14.8
76	3.00	3.27	6.25	162.03	11.0	14.8
76	4.00	4.49	6.25	118.12	12.7	14.8
76	5.00	5.49	6.25	96.50	14.2	14.8
76	6.00	6.50	6.25	81.51	10.9	9.8
76	7.00	7.53	6.25	70.40	12.7	9.8
76	8.00	8.53	6.25	62.12	14.4	9.8

Clear 1.74 SFSV Camber (uncoated & hardcoated)



YoungerOptics **Technical Specifications 2020**

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

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
73	0.50	0.69	9.40	763.69	8.5	21.0
75	2.00	2.21	8.17	239.39	7.0	15.6
75	3.00	3.24	6.88	163.53	6.1	11.5
75	4.00	4.45	4.80	119.10	6.3	6.8
75	5.00	5.48	5.60	96.73	6.0	6.5
75	6.00	6.50	6.20	81.49	7.0	6.8
75	7.00	7.51	6.90	70.55	7.5	6.5
75	8.00	8.54	6.70	62.05	10.5	7.6

Transitions™
XTRActive®

Transitions™
Signature®

Photochromic Lenses

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MATERIAL	SPECIAL FEATURES	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	UV ABSORPTION	TRANSMISSION
HARD RESIN	PHOTOCHROMIC	SPHERICAL	1.50	56	1.27	GRAY BROWN	100 %	94% NOT ACTIVATED 21% ACTIVATED GRAY 23% ACTIVATED BROWN

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
75	0.50	0.81	4.25	653.51	11.4	15.2
75	2.00	2.42	4.25	219.10	13.8	15.2
75	3.00	3.48	6.25	152.43	12.1	15.2
75	4.00	4.81	6.25	110.12	10.6	11.3
75	5.00	5.93	6.25	89.35	12.0	11.3
75	6.00	6.96	6.25	76.16	10.0	7.7
75	7.00	8.08	6.25	65.60	12.0	7.7
75	8.00	9.14	6.25	57.99	14.3	7.7

Transitions™ Signature® 1.53 Trilogy® Camber (uncoated & hardcoated)



YoungerOptics Technical Specifications 2020

MATERIAL	SPECIAL FEATURES	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	UV ABSORPTION	TRANSMITTANCE	ABSORPTION
TRIVEX®	PHOTOCHROMIC	SPHERICAL	1.53	45	1.1	GRAY BROWN	100 %	94% NOT ACTIVATED 21% ACTIVATED GRAY 23% ACTIVATED BROWN	6% NOT ACTIVATED 79% ACTIVATED GRAY 77% ACTIVATED BROWN

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
76	0.50	0.78	4.25	678.62	10.1	14.5
76	2.00	2.40	6.25	220.65	8.9	14.4
76	3.00	3.48	6.25	152.30	10.4	14.3
76	4.00	4.83	6.25	109.75	12.3	14.3
76	5.00	5.93	6.25	89.33	9.3	9.6
76	6.00	6.99	6.25	75.88	10.8	9.6
76	7.00	8.07	6.25	65.69	10.8	7.5
76	8.00	9.17	6.25	57.78	12.7	7.5

MATERIAL	SPECIAL FEATURES	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	UV ABSORPTION	TRANSMITTANCE	ABSORPTION
POLYCARBONATE	PHOTOCHROMIC	SPHERICAL	1.586	32	1.21	GRAY BROWN	100 %	94% NOT ACTIVATED 21% ACTIVATED GRAY 23% ACTIVATED BROWN	6% NOT ACTIVATED 79% ACTIVATED GRAY 77% ACTIVATED BROWN

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
75.0	0.50	0.69	4.25	768.116	8.0	11.7
75.0	2.00	2.04	4.25	259.804	10.0	11.7
75.0	3.00	2.95	4.25	179.661	11.3	11.8
75.0	4.00	4.10	6.25	129.268	10.7	12.1
75.0	5.00	4.99	6.25	106.212	8.2	8.0
75.0	6.00	5.90	6.25	89.831	9.6	8.4
75.0	7.00	6.80	7.69	77.941	9.1	8.4
75.0	8.00	7.71	7.69	68.742	10.5	8.1

MATERIAL	SPECIAL FEATURES	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	UV ABSORPTION	TRANSMITTANCE	ABSORPTION
MR8	PHOTOCHROMIC	SPHERICAL	1.60	42	1.30	GRAY BROWN	100 %	94% NOT ACTIVATED 21% ACTIVATED GRAY 23% ACTIVATED BROWN	6% NOT ACTIVATED 79% ACTIVATED GRAY 77% ACTIVATED BROWN

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
76	0.50	0.75	6.25	703.85	7.3	14.5
76	2.00	2.27	6.25	233.27	9.3	14.4
76	3.00	3.29	6.25	161.24	10.7	14.4
76	4.00	4.54	6.25	116.82	12.4	14.5
76	5.00	5.55	6.25	95.55	13.8	14.9
76	6.00	6.56	6.25	80.81	10.6	9.9
76	7.00	7.57	6.25	70.04	12.2	9.7
76	8.00	8.59	6.25	61.71	13.9	9.8

MATERIAL	SPECIAL FEATURES	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	UV ABSORPTION	TRANSMITTANCE	ABSORPTION
MR-10	PHOTOCHROMIC	SPHERICAL	1.67	31	1.37	GRAY BROWN	100 %	94% NOT ACTIVATED 21% ACTIVATED GRAY 23% ACTIVATED BROWN	6% NOT ACTIVATED 79% ACTIVATED GRAY 77% ACTIVATED BROWN

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
76	0.50	0.69	6.25	763.69	7.6	14.8
76	2.00	2.23	6.25	237.99	9.6	14.8
76	3.00	3.27	6.25	162.03	11.0	14.8
76	4.00	4.49	6.25	118.12	12.7	14.8
76	5.00	5.49	6.25	96.50	14.2	14.8
76	6.00	6.50	6.25	81.51	10.9	9.8
76	7.00	7.53	6.25	70.40	12.7	9.8
76	8.00	8.53	6.25	62.12	14.4	9.8

Transitions[™] Signature[®] 1.74 Camber (uncoated & hardcoated)



YoungerOptics Technical Specifications 2020

MATERIAL	SPECIAL FEATURES	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	UV ABSORPTION	TRANSMITTANCE	ABSORPTION	PRESCRIPTION RANGE (SPHERE+CYL)
MR-174	PHOTOCHROMIC	SPHERICAL	1.74	33	1.47	GRAY BROWN	100 %	88% NOT ACTIVATED 11% ACTIVATED GRAY 15% ACTIVATED BROWN	12% NOT ACTIVATED 89% ACTIVATED GRAY 85% ACTIVATED BROWN	-15.00 TO +12.00

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
73	0.50	0.66	9.40	763.69	8.5	21.0
75	2.00	2.19	8.17	239.39	7.0	15.6
75	3.00	3.20	6.88	163.53	6.1	11.5
75	4.00	4.40	4.80	119.10	6.3	6.8
75	5.00	5.43	5.60	96.73	6.0	6.5
75	6.00	6.46	6.20	81.49	7.0	6.8
75	7.00	7.49	6.90	70.55	7.5	6.5
75	8.00	8.52	6.70	62.05	10.5	7.6

Transitions™ XTRActive® 1.50 Camber (uncoated & hardcoated)



YoungerOptics Technical Specifications 2020

MATERIAL	SPECIAL FEATURES	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	UV ABSORPTION	TRANSMITTANCE	ABSORPTION
HARD RESIN	PHOTOCHROMIC	SPHERICAL	1.50	56	1.27	GRAY BROWN	100 %	83% NOT ACTIVATED 50% ACTIVATED IN CAR 10% FULL ACTIVATION	17% NOT ACTIVATED 50% ACTIVATED IN CAR 90% FULL ACTIVATION

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
75	0.50	0.81	4.25	653.51	11.4	15.2
75	2.00	2.42	4.25	219.10	13.8	15.2
75	3.00	3.48	6.25	152.43	12.1	15.2
75	4.00	4.81	6.25	110.12	10.6	11.3
75	5.00	5.93	6.25	89.35	12.0	11.3
75	6.00	6.96	6.25	76.16	10.0	7.7
75	7.00	8.08	6.25	65.60	12.0	7.7
75	8.00	9.14	6.25	57.99	14.3	7.7

Transitions™ XTRActive® 1.60 Camber (uncoated & hardcoated)



YoungerOptics Technical Specifications 2020

MATERIAL	SPECIAL FEATURES	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	UV ABSORPTION	TRANSMITTANCE	ABSORPTION
MR-8	PHOTOCHROMIC	SPHERICAL	1.60	42	1.30	GRAY BROWN	100 %	83% NOT ACTIVATED 50% ACTIVATED IN CAR 10% FULL ACTIVATION	17% NOT ACTIVATED 50% ACTIVATED IN CAR 90% FULL ACTIVATION

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
76	0.50	0.75	6.25	703.85	7.3	14.5
76	2.00	2.27	6.25	233.27	9.3	14.4
76	3.00	3.29	6.25	161.24	10.7	14.4
76	4.00	4.54	6.25	116.82	12.4	14.5
76	5.00	5.55	6.25	95.55	13.8	14.9
76	6.00	6.56	6.25	80.81	10.6	9.9
76	7.00	7.57	6.25	70.04	12.2	9.7
76	8.00	8.59	6.25	61.71	13.9	9.8

Transitions™ XTRActive® 1.67 Camber (uncoated & hardcoated)



YoungerOptics Technical Specifications 2020

MATERIAL	SPECIAL FEATURES	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS	UV ABSORPTION	TRANSMITTANCE	ABSORPTION
MR-10	PHOTOCHROMIC	SPHERICAL	1.67	31	1.37	GRAY BROWN	100 %	83% NOT ACTIVATED 50% ACTIVATED IN CAR 10% FULL ACTIVATION	17% NOT ACTIVATED 50% ACTIVATED IN CAR 90% FULL ACTIVATION

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
76	0.50	0.69	6.25	763.69	7.6	14.8
76	2.00	2.23	6.25	237.99	9.6	14.8
76	3.00	3.27	6.25	162.03	11.0	14.8
76	4.00	4.49	6.25	118.12	12.7	14.8
76	5.00	5.49	6.25	96.50	14.2	14.8
76	6.00	6.50	6.25	81.51	10.9	9.8
76	7.00	7.53	6.25	70.40	12.7	9.8
76	8.00	8.53	6.25	62.12	14.4	9.8

NUPOLAR[®]

polarized lenses



Polarized Lenses

NUPOLAR[®]

camber
technology

NuPolar® 1.50 Camber (uncoated & hardcoated)



YoungerOptics **Technical Specifications 2020**

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION
HARD RESIN	POLARIZED	1.50	59	1.32	GRAY 3 – 83 % BROWN – 78 %	100 %

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
76	0.50	0.81	4.25	653.51	11.4	16.6
76	2.00	2.42	4.25	219.10	13.8	16.4
76	3.00	3.48	6.25	152.43	12.0	16.5
76	4.00	4.81	6.25	110.12	10.6	13.4
76	5.00	5.87	6.25	90.24	12.0	13.1
76	6.00	6.96	6.25	76.16	10.0	9.2
76	7.00	8.02	6.25	66.13	12.0	9.2
76	8.00	9.08	6.25	58.40	14.3	9.4

NuPolar® 1.59 Poly Camber (hardcoated)



YoungerOptics **Technical Specifications 2020**

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION
POLYCARBONATE	POLARIZED	1.586	32	1.21	GRAY 3 – 83 % BROWN – 78 %	100 %

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
76.0	0.50	0.69	4.25	768.116	8.0	12.4
76.0	2.00	2.04	4.25	259.804	10.0	12.6
76.0	3.00	2.95	4.25	179.661	11.0	12.5
76.0	4.00	4.10	6.25	129.268	10.5	13.0
76.0	5.00	4.99	6.25	106.212	8.7	10.0
76.0	6.00	5.90	6.25	89.831	10.2	10.0
76.0	7.00	6.80	7.69	77.941	9.3	9.5
76.0	8.00	7.71	7.69	68.742	10.4	9.2

NuPolar® 1.60 Camber (uncoated & hardcoated)



YoungerOptics **Technical Specifications 2020**

MATERIAL	SPECIAL FEATURES	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION
MR-8	POLARIZED	1.60	42	1.30	GRAY 3 – 83 % BROWN – 78 %	100 %

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
75	0.50	0.75	6.25	703.85	6.6	14.2
75	2.00	2.27	6.25	233.27	8.6	13.9
75	3.00	3.29	6.25	161.24	9.9	14.1
75	4.00	4.54	6.25	116.82	11.7	14.7
75	5.00	5.55	6.25	95.55	13.1	14.4
75	6.00	6.56	6.25	80.81	9.8	9.4
75	7.00	7.57	6.25	70.04	11.4	9.7
75	8.00	8.59	6.25	61.71	13.1	9.5

NuPolar® 1.67 Camber (uncoated & hardcoated)



YoungerOptics **Technical Specifications 2020**

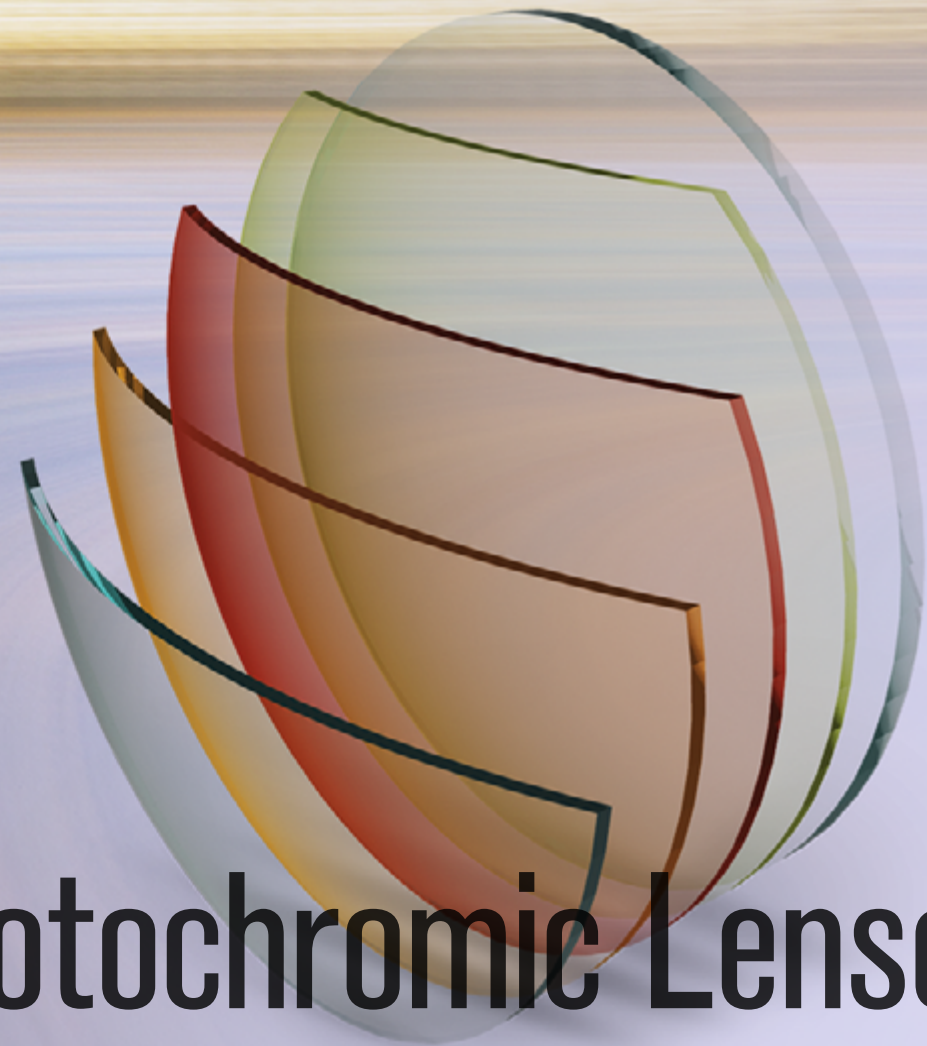
MATERIAL	SPECIAL FEATURES	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	SPECIFIC GRAVITY	COLOURS AND LIGHT ABSORPTION	UV ABSORPTION
MR-10	POLARIZED	SPHERICAL	1.67	31	1.37	GRAY 3 – 83 % BROWN – 78 %	100 %

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
75	0.5	0.72	6.25	733.06	7.6	14.8
75	2.0	2.27	6.25	233.48	9.6	14.8
75	3.0	3.30	6.25	160.61	11.0	14.8
75	4.0	4.50	6.25	117.78	12.8	14.8
75	5.0	5.49	6.25	96.50	14.2	14.8
75	6.0	6.50	6.25	81.51	10.6	9.7
75	7.0	7.54	6.25	70.29	12.6	9.7
75	8.0	8.56	6.25	61.92	14.4	9.7



Transitions[™]
Drivewear[®]

Transitions[™]
Drivewear[®]



Polarized Photochromic Lenses

MATERIAL	SPECIAL FEATURES	GEOMETRY	REFRACTIVE INDEX	ABBE VALUE	UV ABSORPTION	LIGHT ABSORPTION	TRANSMITTANCE
POLYCARBONATE	PHOTOCHROMIC POLARIZED	SPHERICAL	1.586	32	100 %	INACTIVE 65 % ACTIVE IN CAR 78 % ACTIVE OUTSIDE 88 %	INACTIVE 35 % ACTIVE IN CAR 22 % ACTIVE OUTSIDE 12 %

DIAMETER	BASE	TRUE CURVE (@1.53 INDEX)		RADIUS	THICKNESS (mm)	
		FRONT	BACK		CENTER	EDGE
75.0	0.50	0.70	4.25	768.12	8.0	12.4
75.0	2.00	2.02	4.25	259.80	10.0	12.6
75.0	3.00	2.93	4.25	179.66	11.0	12.5
75.0	4.00	4.06	6.25	129.27	10.5	13.0
75.0	5.00	4.98	6.25	106.21	8.7	10.0
75.0	6.00	5.87	6.25	89.83	10.2	10.0
75.0	7.00	6.79	7.69	77.94	9.3	9.5
75.0	8.00	7.69	7.69	68.74	10.4	9.2