

X-CEL Optical Technical Data 2012

Polarized Plastic & Poly Lenses

76mm POLARIZED CR-39 UN-COATED SFSV Gray 3, Brown 3

Film placement is 1.0mm from front.
Film curves match front true curves.

Nom	True	Sag	CT	ET	Back	Rx Range
2.25	2.35	1.390	11.8	18.1	-6.50	-8.00 to -4.75
3.25	3.17	1.880	13.5	18.8	-6.50	-4.50 to -3.25
4.25	4.12	2.453	10.5	14.1	-6.50	-3.00 to -2.00
5.25	5.12	3.067	11.0	12.1	-6.50	-1.75 to -0.25
6.25	6.21	3.744	10.4	10.8	-6.50	0.00 to +1.00
7.25	7.36	4.480	13.4	10.9	-6.50	+1.25 to +2.50
8.25	8.57	5.278	13.9	10.6	-6.50	+2.75 to +5.50

76mm POLARIZED CR-39 UN-COATED D-28 Gray 3, Brown 3

Film placement is 1.0mm from front.
Film curves match front true curves.
Seg Location: 6.0 in / 6.0 dn

Nom	True	Sag	CT	ET	Back	Rx Range
2.25	2.10	1.210	15.9	18.0	-4.25	-8.00 to -4.25
4.25	4.08	2.429	10.2	13.5	-6.33	-4.00 to -2.25
6.25	6.22	3.750	9.0	9.0	-6.33	-2.00 to +2.00
8.25	8.24	5.056	12.3	8.4	-6.33	+2.25 to +5.50

75mm POLARIZED CR-39 UN-COATED 7X28 Gray 3

Film placement is 1.0mm from front.
Film curves match front true curves.
Seg Location: 6.0 in / 2.0 dn

Nom	True	Sag	CT	ET	Back	Rx Range
4.25	4.08	2.427	10.0	14.0	-6.25	-4.00 to -2.25
6.25	6.21	3.741	8.1	9.0	-6.25	-2.00 to +2.00
8.25	8.29	5.088	14.9	9.0	-4.25	+2.25 to +5.00

80mm POLARIZED CR-39 UN-COATED Freedom ID Progressive Gray 3

Film placement is 1.0mm from front.
Film curves match front true curves.
Fitting cross 2.5 in / 4.0 up
Recommended Fitting Height is 17mm

Nom	True	Sag	CT	ET	Back	Rx Range
3.25	3.13	1.860	15.0	16.0	-4.25	-4.00 to -2.25
5.25	5.16	3.090	9.8	10.4	-6.25	-2.00 to +2.00
7.25	7.13	4.330	12.7	10.2	-6.25	+2.25 to +5.00

75mm POLARIZED POLYCARBONATE SFSV Gray 3, Brown 3

Index: 1.586
Can be surfaced to 1.0mm center thickness
Film curve same as front curve

Nom	True	Sag	CT	ET	Back	Rx Range
0.50	0.59	0.345	8.6	13.7	-4.50	-10.00 to -6.25
2.25	2.24	1.326	7.7	9.7	-4.50	-6.00 to -4.25
4.25	4.26	2.540	9.2	9.2	-4.26	-4.00 to -2.25
6.25	6.26	3.770	8.9	9.0	-7.00	-2.00 to +2.00
8.28	8.27	5.080	10.4	9.6	-8.75	+2.25 to +5.50

73mm POLARIZED POLYCARBONATE Freedom ID Progressive Grey/Green & Brown

Film curves match front true curves.
Fitting cross 2.5 in / 4.0 up
Recommended Fitting Height is 17mm

Nom	True	Sag	CT	ET	Back	Rx Range
3.25	3.22	1.901	8.0	8.5	-4.50	-4.00 to -2.25
5.25	5.22	3.127	9.7	9.4	-6.00	-2.00 to +2.00
7.25	7.12	4.322	11.2	9.4	-7.00	+2.25 to +5.50

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76mm Spherical SFSV Thicks

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
1.25	1.23	.726	16.0	14.4	-0.00	-9.00 to -5.75
2.25	2.42	1.432	17.5	14.4	-0.00	-5.50 to -4.75
3.25	3.18	1.886	18.3	14.4	-0.00	-4.50 to -3.25
4.25	4.42	2.635	20.2	14.4	-0.00	-3.00 to -2.00
5.25	5.23	3.132	12.7	14.0	-6.25	-1.75 to -0.25
6.25	6.38	3.851	14.0	14.0	-6.25	-0.00 to +1.00
7.25	7.46	4.544	16.1	14.0	-6.25	+1.25 to +2.50
8.25	8.45	5.198	17.8	14.0	-6.25	+2.75 to +4.50
9.25	9.57	5.964	19.8	14.0	-6.25	+4.75 to +6.50

76mm D-28, D-35, 7X28 & Round 24 Thicks

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
2.25	2.42	1.432	17.5	14.4	-0.00	-8.00 to -4.75
4.25	4.42	2.635	20.2	14.4	-0.00	-4.50 to -2.25
6.25	6.38	3.851	14.0	14.0	-6.25	-2.00 to +2.00
8.25	8.45	5.198	17.8	14.0	-6.25	+2.25 to +5.50

Segment Locations are:

76mm D-28	5.0 In / 7.0 Dn	1.00 to 4.00 Adds
76mm D-35	5.0 In / 7.0 Dn 2 base	1.00 to 3.00 Adds
76mm D-35	5.0 In / 7.0 Dn	1.00 to 4.00 Adds
76mm 7X28	5.0 In / 4.0 Dn	1.50 to 3.50 Adds
76mm Rd-24	0 In / 7.0 Dn	1.00 to 3.00 Adds

NXT Spherical SFSV - Polarized and Non-Polarized NXT

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
0.50	0.48	0.283	6.5	12.5	-5.15	-10.00 to -5.50
2.25	2.01	1.188	6.5	10.7	-5.14	-5.50 to -4.75
4.25	4.08	2.428	6.6	8.2	-5.14	-4.50 to -2.00
5.25	5.07	3.033	10.0	10.3	-5.14	-1.75 to -0.25
6.25	6.12	3.687	10.0	10.3	-6.18	-0.00 to +2.00
8.25	8.08	4.951	11.9	12.9	-8.19	+2.25 to +5.50

Polarized NXT Film Placment is 0.8mm from front
Polarized Film Curve Matches Front True Curve