

X-CEL Optical Technical Data 2010

High-X™ Index Transitions® Lenses

Updated 5/07/10 For 155 Lenses With New OPC's

1.55 Index 72/78mm SFSV , D-28, D-35, 7X28 & 8X35

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
0.50	0.56	0.330	10.8	18.8	-6.33	-11.00 to -7.25
2.25	2.34	1.384	13.0	18.7	-6.33	-7.00 to -4.50
4.25	4.40	2.623	10.0	13.1	-6.33	-4.25 to -2.25
6.25	6.35	3.832	8.5	8.6	-6.33	-2.00 to +2.00
8.25	8.35	5.131	12.0	8.4	-6.33	+2.25 to +5.00
10.25	10.41	6.561	16.0	8.5	-6.33	+5.25 to +9.00

Segment Locations are:

72mm D-28	6.0 In / 6.0 Down	10.25 Base	Gray & Brown in 1.00 to 3.50 Adds
72mm D-28	5.0 In / 7.0 Down	0.50, 2.25 Base	Gray & Brown in 1.00 to 3.50 Adds
78mm D-28	6.0 In / 6.5 Down		Gray & Brown in 1.00 to 4.00 Adds
72mm D-35	5.0 In / 7.0 Down		Gray Only in 1.00 to 3.50 Adds
78mm D-35	6.0 In / 5.5 Down		Gray & Brown in 1.00 to 4.00 Adds
72mm 7X28	6.0 In / 3.0 Down	10.25 Base	Gray Only in 1.75 to 3.50 Adds
72mm 7X28	5.0 In / 4.0 Down	0.50, 2.25 Base	Gray Only in 1.75 to 3.50 Adds
78mm 7X28	6.0 In / 3.5 Down		Gray & Brown in 1.50 to 4.00 Adds
72mm 8X35	5.0 In / 3.0 Down		Gray Only in 1.50 to 3.00 Adds
78mm 8X35	6.0 In / 2.5 Down		Gray Only in 1.50 to 3.00 Adds

Recommended Minimum Center Thickness is 1.8mm

All Transitions High-X 1.55 Lenses have an Abbe of 38, Block 100% UVA and UVB, are front side hard coated, have a true index of 1.554

1.67 Index Freedom^{ID} Technical Data

17mm Fitting Height

Diam.	Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
72mm	1.50	1.48	0.878	10.2	15.8	-6.10	-12.50 to -6.25
72mm	3.00	2.98	1.770	8.8	12.5	-6.10	-6.00 to -2.00
72mm	5.00	4.51	2.685	9.1	10.8	-6.10	-1.75 to +2.00
72mm	6.50	5.75	3.454	8.2	8.4	-6.10	+2.25 to +4.00
72mm	7.50	7.00	4.245	10.1	8.4	-6.10	+4.25 to +6.00

Segment Location or Fitting Cross is 2.5mm In / 4.0mm Up from geometric center.

The semi-visible marking is a circle.

Minimum Recommended Center Thickness is 1.2mm.

All X-Cel Optical High-X 1.67 lenses are scratch coated, non-tintable.