

X-Cel Optical 2014 Lens Technical Data

Transitions® Signature® VII 1.50 Lenses

72mm SFSV Gray & Brown

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
0.50	0.44	0.26	9.0	13.5	-4.00	-9.00 to -7.25
2.25	2.28	1.35	9.0	11.4	-4.00	-7.00 to -4.25
4.25	4.29	2.56	8.5	8.1	-4.00	-4.00 to -3.25
5.25	5.25	3.14	8.5	9.5	-6.00	-3.00 to -1.25
6.25	6.20	3.74	8.5	8.2	-6.00	-1.00 to +2.00
8.25	8.26	5.07	9.4	6.0	-6.00	+2.25 to +5.00

SFDS Gray & Brown for Digital Surfacing

Diam.	Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
77mm	0.50	0.44	0.26	10.6	15.8	-4.00	-9.00 to -6.25
77mm	2.00	2.00	1.18	16.7	16.8	-2.03	-6.00 to -4.75
77mm	3.50	3.48	2.07	18.8	16.7	-2.03	-4.50 to -3.25
77mm	4.25	4.25	2.53	14.8	14.8	-4.22	-3.00 to -2.00
77mm	5.25	5.19	3.11	11.9	10.3	-4.22	-1.75 to -0.25
77mm	6.25	6.19	3.73	13.6	13.7	-6.33	-0.00 to +1.00
77mm	7.25	7.22	4.39	13.6	12.0	-6.33	+1.25 to +2.50
73mm	8.75	8.76	5.41	12.0	8.4	-6.33	+2.75 to +4.75
69mm	10.50	10.35	6.52	14.8	9.5	-6.33	-5.00 to +8.00

76mm SFSV XTRActive, Vantage

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
0.50	0.44	0.256	10.6	15.8	-4.00	-9.00 to -7.25
2.25	2.09	1.235	10.6	13.6	-4.00	-7.00 to -4.25
4.25	4.30	2.561	10.6	10.4	-4.00	-4.00 to -3.25
5.25	5.26	3.149	8.7	10.2	-6.00	-3.00 to -1.25
6.25	6.21	3.746	8.7	8.8	-6.00	-1.00 to +2.00
8.25	8.26	5.070	12.3	8.0	-6.00	+2.25 to +5.00

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Transitions® Siganture® VII 1.50 Lenses

76mm D-28 Gray & Brown

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
0.50	0.44	0.256	10.6	15.8	-4.00	-9.00 to -7.25
2.25	2.09	1.235	10.6	13.6	-4.00	-7.00 to -4.25
4.25	4.30	2.562	10.6	10.4	-4.00	-4.00 to -3.25
5.25	5.29	3.169	8.7	10.2	-6.00	-3.00 to -1.25
6.25	6.21	3.744	8.7	8.8	-6.00	-1.00 to +2.00
8.25	8.26	5.071	12.3	8.0	-6.00	+2.25 to +5.00

72/ 78mm D-28, D-35, RD24, 7X28 & 8X35

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
2.25	2.28	1.347	11.5	16.7	-6.21	-7.00 to -4.25
4.25	4.32	2.574	9.2	12.4	-6.21	-4.00 to -2.25
6.25	6.32	3.813	8.5	8.4	-6.21	-2.00 to +2.00
8.25	8.34	5.124	12.0	8.4	-6.21	+2.25 to +4.25
10.25	10.44	6.578	15.6	8.5	-6.21	+4.50 to +7.00

Segment Locations are:

72mm D-28	10 Base 5.0 In / 7.0 Down	Gray Only in 1.00 to 3.00 Adds
76mm D-28	5.0 In / 7.0 Down	Gray & Brown in 1.00 to 3.00 Adds
78mm D-28	6.0 In / 6.5 Down	Gray, Brown, XTRA in 0.75, 3.25 to 5.00 Adds
72mm D-35	5.0 In / 7.0 Down	Gray Only in 1.00 to 3.00 Adds
78mm D-35	6.0 In / 5.5 Down	Gray & Brown in 0.75 to 4.00 Adds
78mm RD24	0.0 In / 9.5 Down	Gray & Brown in 0.75 to 4.00 Adds
72mm 7X28 2 Base	5.0 In / 4.0 Down	Gray Only in 1.50 to 3.00 Adds
72mm 7X28 10 Base	5.0 In / 4.0 Down	Gray Only in 1.75 to 3.00 Adds
78mm 7X28	6.0 In / 3.5 Down	Gray & Brown in 1.50 to 4.00 Adds
72mm 8X35 2 Base	5.0 In / 3.0 Down	Gray Only in 1.50 to 3.00 Adds
78mm 8X35	6.0 In / 2.5 Down	Gray & Brown in 1.50 to 4.00 Adds

72mm Freedom ID™ Progressive Gray Only

17mm Fitting Height

Nominal	True	Sag.	C.T.	E.T.	Back	Rx Range
3.00	3.31	1.964	9.0	12.0	-6.10	-4.50 to -2.25
5.00	5.35	3.206	7.4	7.6	-6.10	-2.00 to +1.00
6.50	6.69	4.048	9.4	7.6	-6.10	+1.25 to +2.00
7.50	7.51	4.576	10.8	7.4	-6.10	+2.25 to +5.00

Segment Location or Fitting Cross is 2.5mm In / 4.0mm Up from geometric center
 Gray Only in 1.00 to 3.00 adds

All X-Cel Optical Transitions 1.50 lenses block 100% UVA and UVB