



Single Vision - Fact Sheets

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Substrate	:	1.67 MR10	
Product Name	:	ASL SINGLE VISION	
Product Type	:	SEMI-FINISHED LENS	Cat Codes: HC-767 Unc-952
Reference	:	5111201.FS3	
Date	:	15 May 2008	Page : 1 of 3

Product Range:

Nominal Diameter	Nominal Base Curve (D)	Recommended Rx Range (D)
73 mm	0.50	-12.00 to -8.00
73 mm	1.25	-7.75 to -4.25
73 mm	2.50	-4.00 to -0.75
73 mm	3.25	-0.50 to +1.50
73 mm	4.00	+1.75 to +3.00
73 mm	5.25	+3.25 to +4.00
73 mm	6.25	+4.25 to +5.00
73 mm	7.25	+5.25 to +6.00
73 mm	8.25	+6.25 to +7.00
73 mm	9.25	+7.25 to +8.00

Material & Coating Specifications:

Type	1.67 MR-10™
Refractive Index	$\eta_d = 1.661$ (Helium 'd' line 587.56nm) $\eta_e = 1.666$ (Mercury 'e' line 546.07nm)
Abbe Number	$v_d = 32$ $v_e = 32$
Density	1.37 g.cm ⁻³
UV Protection	100% UVA and UVB (from 380nm to 280nm as per ISO 8980-3-2003, ANSI Z80-1-1999)
Coating Type	Ultra-Tough™ & Uncoated

For External Distribution

Reference : 5111201.FS3

Date : 15 May 2008

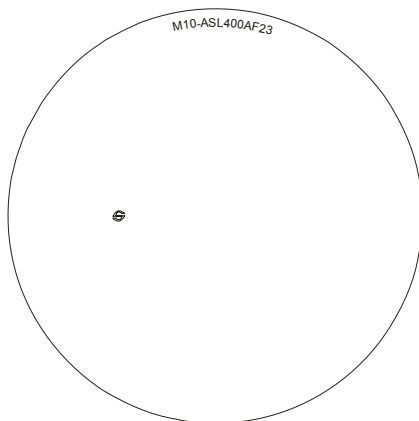
Page : 2 of 3

Surface Curves: (As measured in 1.530 R.I)

Nominal Base	True Front Curve (D) (1.530)	True Front Curve (D) (1.66)	Radii (mm)	True Front Curve Sag @ 50mm (mm)	Nominal Back Curve (D)	Centre Thickness (mm) (± 1.0mm)	Nominal Edge Thickness (mm)	Nominal Packaged Weight (g)
0.50	0.70	0.87	757.14	0.413	-6.00	9.5	16.5	79
1.25	1.21	1.51	438.02	0.714	-6.00	6.8	13.0	65
2.50	2.68	3.34	197.76	1.587	-6.00	5.5	9.9	55
3.25	2.94	3.66	180.27	1.742	-6.00	6.0	10.2	55
4.00	3.63	4.52	146.01	2.156	-6.00	7.1	10.7	55
5.25	5.03	6.26	105.37	3.009	-6.00	8.5	10.3	56
6.25	6.35	7.91	83.47	3.832	-6.00	9.0	8.9	58
7.25	7.37	9.18	71.91	4.485	-6.00	10.3	8.7	62
8.25	8.39	10.45	63.17	5.157	-6.00	10.7	7.4	60
9.25	9.41	11.72	56.32	5.852	-6.00	12.0	7.0	59

Product Markings:

Semi-Visible Markings



Back Surface



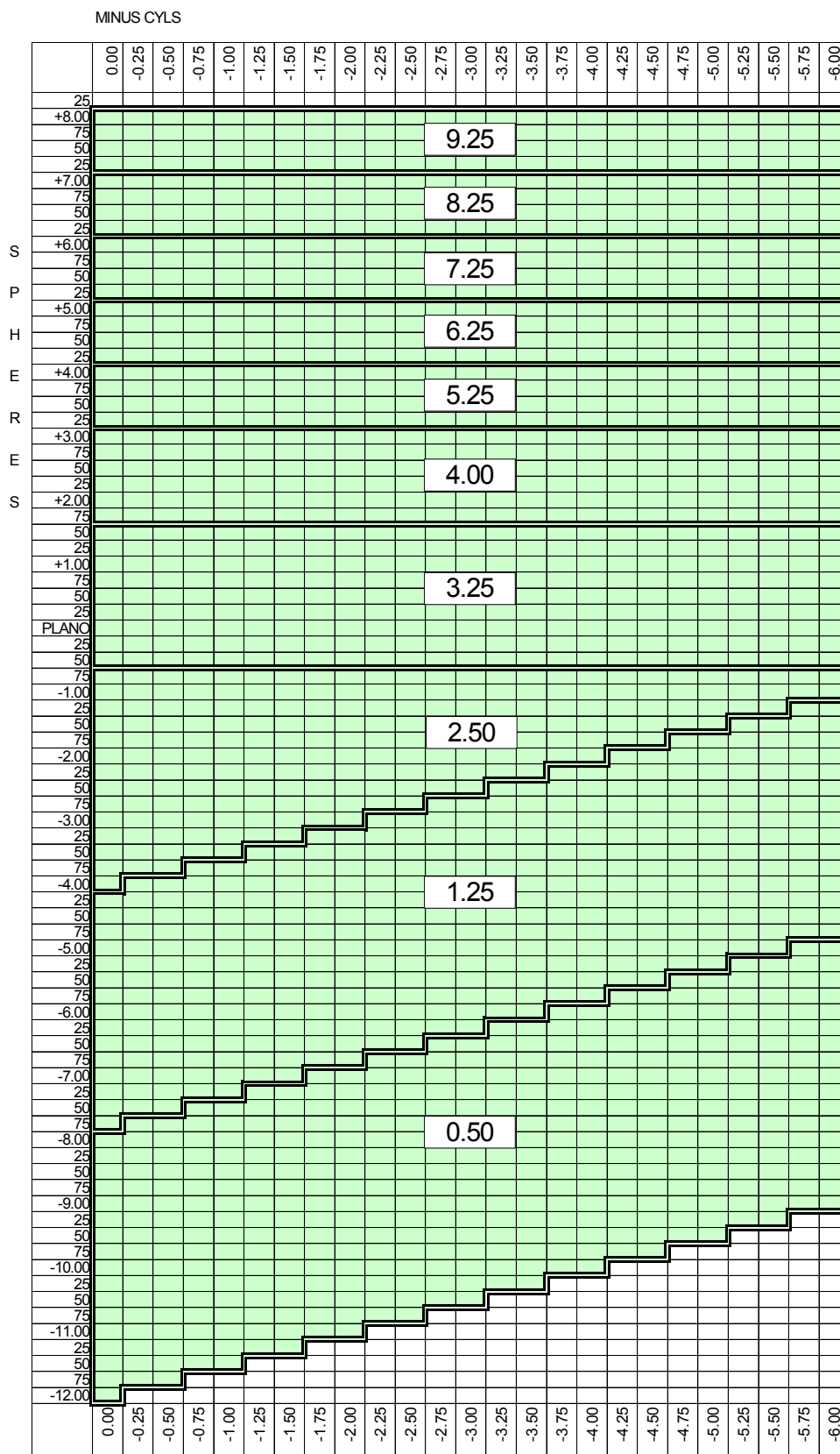
Surfacing:

Recommended Centre & Edge Thicknesses

Power Range	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-12.00 D to -2.00 D	1.5	
-1.75 D to +1.25 D	2.0 or *	1.0 *
+1.50 D to +3.75 D		1.0
+4.00 D to +8.00 D		0.5

* Thicknesses are based on whichever is the limiting factor.

Recommended Range Chart:





PRODUCT FACT SHEET

Substrate : **1.67 PhotoFusion®**
 Product Name : **ASPHERIC SINGLE VISION**
 Product Type : **SEMI-FINISHED BLANKS**
 Reference : 00211.FS2
 Date : 22 March 2012

Page : 1 of 3

Product Range:

	<i>CAT Code</i>
Brown	F32
Grey	F31

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)
73 mm	0.50	-12.00 to -8.00
73 mm	1.25	-7.75 to -4.25
73 mm	2.50	-4.00 to -0.75
73 mm	3.25	-0.50 to +1.50
73 mm	4.00	+1.75 to +3.00
73 mm	5.25	+3.25 to +4.00
73 mm	6.25	+4.25 to +5.00
73 mm	7.25	+5.25 to +6.00
73 mm	8.25	+6.25 to +7.00
73 mm	9.25	+7.25 to +8.00

Material & Coating Specifications:

Type	1.67, MR-10™
Refractive Index	$n_d = 1.661$ (Helium 'd' line 587.56nm) $n_e = 1.666$ (Mercury 'e' line 546.07nm)
Abbe Number	$v_d = 32$ $v_e = 32$
Density	1.37 g.cm ⁻³
UV Protection (ISO)	UVA : 100% UVB : 100% Coated , Activated : 2.0mm Centre Thickness
Coating Type	Hard Coated

For External Distribution

Blank Information: (Curves measured in 1.530 Index, at the Geometric Centre)

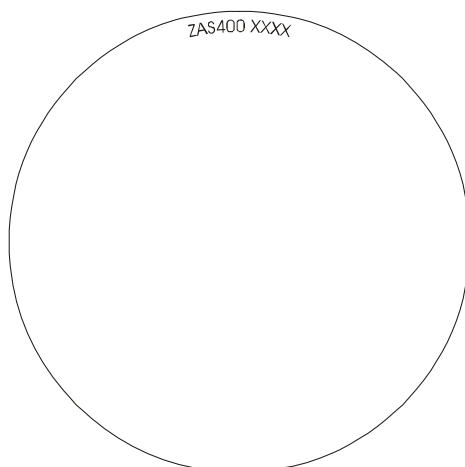
Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	True Front Curve Sag @ 50mm (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0 mm)	Nominal Edge Thickness (mm)	Packaged Weight (g)
0.50	0.69	768.12	0.41	-6.00	9.5	16.5	79
1.25	1.22	434.43	0.73	-6.00	6.8	13.0	65
2.50	2.67	198.50	1.58	-6.00	5.5	9.9	55
3.25	2.92	181.51	1.73	-6.00	6.0	10.2	55
4.00	3.62	146.41	2.16	-6.00	7.1	10.7	55
5.25	4.99	106.21	3.01	-6.00	8.5	10.3	56
6.25	6.30	84.13	3.82	-6.00	9.0	8.9	58
7.25	7.32	72.40	4.47	-6.00	10.3	8.7	62
8.25	8.35	63.47	5.16	-6.00	10.7	7.4	60
9.25	9.35	56.68	5.83	-6.00	12.0	7.0	59

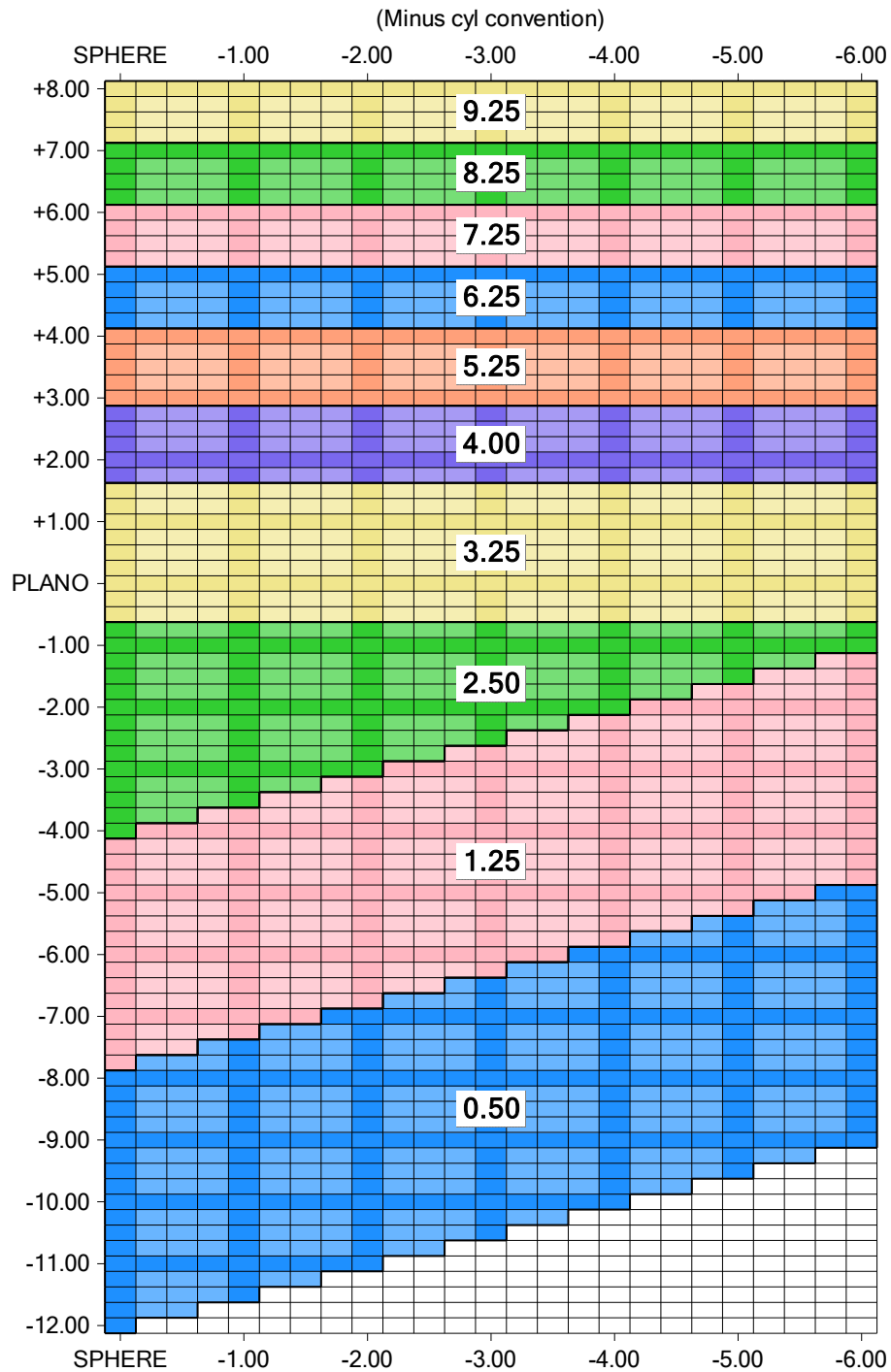
Surfacing:

Recommended Centre & Edge Thicknesses

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-12.00 to -2.00	1.5	
-1.75 to +1.25	2.0 or *	1.0 *
+1.50 to +3.75		1.0
+4.00 to +8.00		0.5

* Thicknesses are based on whichever is the limiting factor.

Product Markings:Front Surface : Semi-Visible MarkingsBack Surface Markings

RX Range Chart:



PRODUCT FACT SHEET

Substrate	:	1.67 MR10 TRANSITIONS® SIGNATURE VII		
Product Name	:	SOLA ASPHERIC SINGLE VISION		
Product type	:	SEMI-FINISHED BLANKS		
Reference	:	00348.FS2		
Date	:	04 December 2013	Page	: 1 of 3

Product Range:

Europe Region:

Product:	Gray UNC
LGC:	L6315

USA:

Product:	Gray HC	Brown HC
LGC:	L6427	L6445
Cat Code:	V87	V86

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)	
73	0.50	-12.00	to -8.00
73	1.25	-7.75	to -4.25
73	2.50	-4.00	to -0.75
73	3.25	-0.50	to +1.50
73	4.00	+1.75	to +3.00
73	5.25	+3.25	to +4.00
73	6.25	+4.25	to +5.00
73	7.25	+5.25	to +6.00
73	8.25	+6.25	to +7.00
73	9.25	+7.25	to +8.00

Material & Coating Specifications:

Type	MR-10™
Refractive Index	$n_d = 1.661$ (Helium 'd' line 587.56nm) $n_e = 1.666$ (Mercury 'e' line 546.07nm)
Abbe Number	$v_d = 32$ $v_e = 32$
Density	1.37 g.cm^{-3}
UV Protection (ISO)	100% UVA and UVB (from 380nm to 280nm as per ISO 8980-3)
Coating Type	Coated

For External Distribution

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MR-10 is a trademark of Mitsui Chemicals Inc.
Transitions is a registered trademark of Transitions Optical Inc.

Reference	:	00348.FS2			
Date	:	04 December 2013	Page	:	2 of 3

Blank Information:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (±1.0mm)	Nominal Edge Thickness (mm)
0.50	0.70	757.14	-6.00	9.5	16.5
1.25	1.21	438.02	-6.00	6.8	13.0
2.50	2.68	197.76	-6.00	5.5	9.9
3.25	2.93	180.89	-6.00	6.0	10.2
4.00	3.66	144.81	-6.00	7.1	10.7
5.25	5.03	105.37	-6.00	8.5	10.3
6.25	6.34	83.60	-6.00	9.0	8.9
7.25	7.35	72.11	-6.00	10.3	8.7
8.25	8.42	62.95	-6.00	10.7	7.4
9.25	9.41	56.32	-6.00	12.0	7.0

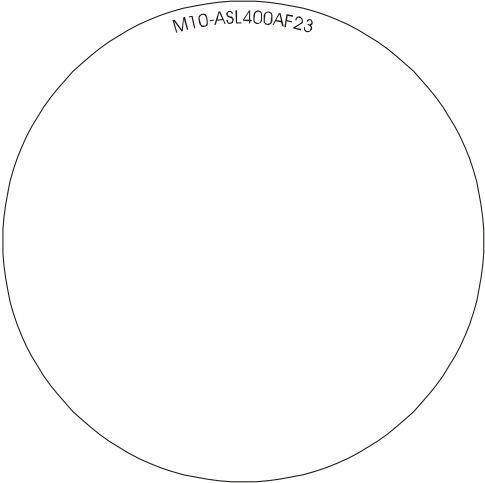
Surfacing:

Recommended centre & edge thicknesses for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-12.00 to -1.50	1.2	
-1.25 to +0.00	1.3 to 2.0	
+0.25 to +3.25		2.0 to 1.1
+3.50 to +6.25		1.0 to 0.6
+6.50 to +8.00		0.5

Product Markings:

Front Surface: Top Code Only

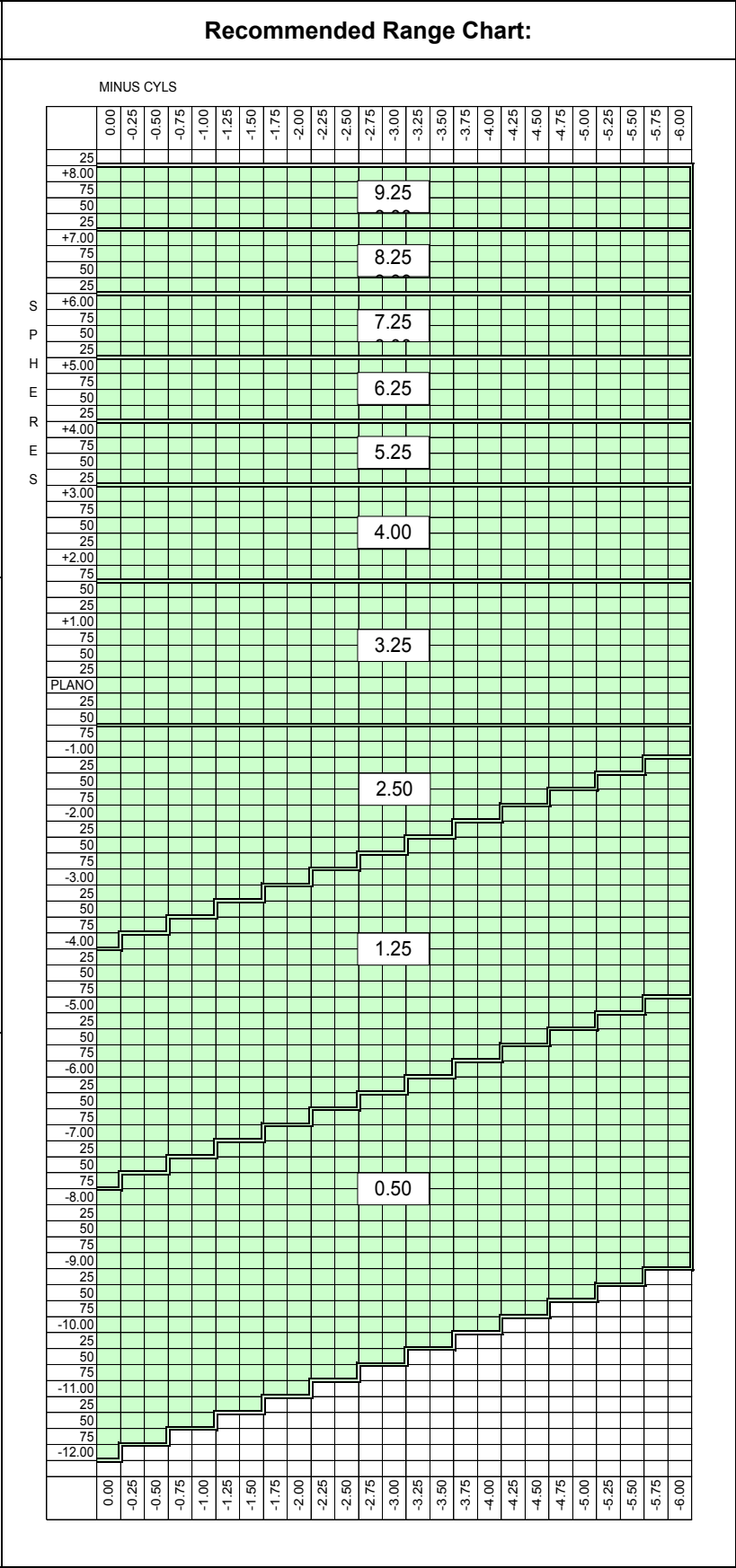


Ink Markings:

None

Back Surface Coding:





Substrate	: 1.67 (MR-10) TRANSITIONS® XTRActive™	Cat Code: B20
Product Name	: ASL SINGLE VISION	
Product Type	: SEMI-FINISHED LENS	
Reference	: 00204.FS1	
Date	: 19 November 2010	Page : 1 of 3

Product Range: Available in Gray

Nominal Diameter	Nominal Base Curve (D)	Rx Range Recommended (D)
73 mm	0.50	-12.00 to -8.00
73 mm	1.25	-7.75 to -4.25
73 mm	2.50	-4.00 to -0.75
73 mm	3.25	-0.50 to +1.50
73 mm	4.00	+1.75 to +3.00
73 mm	5.25	+3.25 to +4.00
73 mm	6.25	+4.25 to +5.00
73 mm	7.25	+5.25 to +6.00
73 mm	8.25	+6.25 to +7.00
73 mm	9.25	+7.25 to +8.00

Material & Coating Specifications:

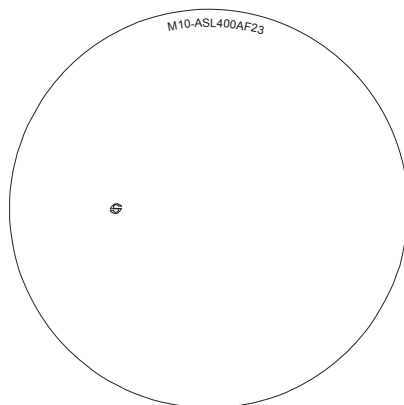
Type	1.67 (MR10)
Refractive Index	$\eta_d = 1.661$ (Helium 'd' line 587.56nm) $\eta_e = 1.666$ (Mercury 'e' line 546.07nm)
Abbe Number	$v_d = 32$ $v_e = 32$
Density	1.37 g.cm ⁻³
UV Protection	100% UVA and UVB (from 380nm to 280nm as per ISO 8980-3, ANSI Z80-1)
Coating Type	Ultra-Tough™ coated Gray

For External Distribution

The 'eye' logo, SOLA, Ultra-Tough, and SOLAOne are trademarks of Carl Zeiss Vision Inc.
Transitions is a registered trademark of Transitions Optical Inc.
XTRActive is a trademark of Transitions Optical Inc.

Surface Curves: (As measured in 1.530 R.I)

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (mm)	Nominal Edge Thickness (mm)	Nominal Packaged Weight (g)
0.50	0.70	757.14	-6.00	9.5 +/- 1mm	16.5	79
1.25	1.21	438.02	-6.00	6.8 +/- 1mm	13.0	65
2.50	2.68	197.76	-6.00	5.5 +/- 1mm	9.9	55
3.25	2.93	180.89	-6.00	6.0 +/- 1mm	10.2	55
4.00	3.66	144.81	-6.00	7.1 +/- 1mm	10.7	55
5.25	5.03	105.37	-6.00	8.5 +/- 1mm	10.3	56
6.25	6.34	83.60	-6.00	9.0 +/- 1mm	8.9	58
7.25	7.35	72.11	-6.00	10.3 +/- 1mm	8.7	62
8.25	8.42	62.95	-6.00	10.7 +/- 1mm	7.4	60
9.25	9.41	56.32	-6.00	12.0 +/- 1mm	7.0	59

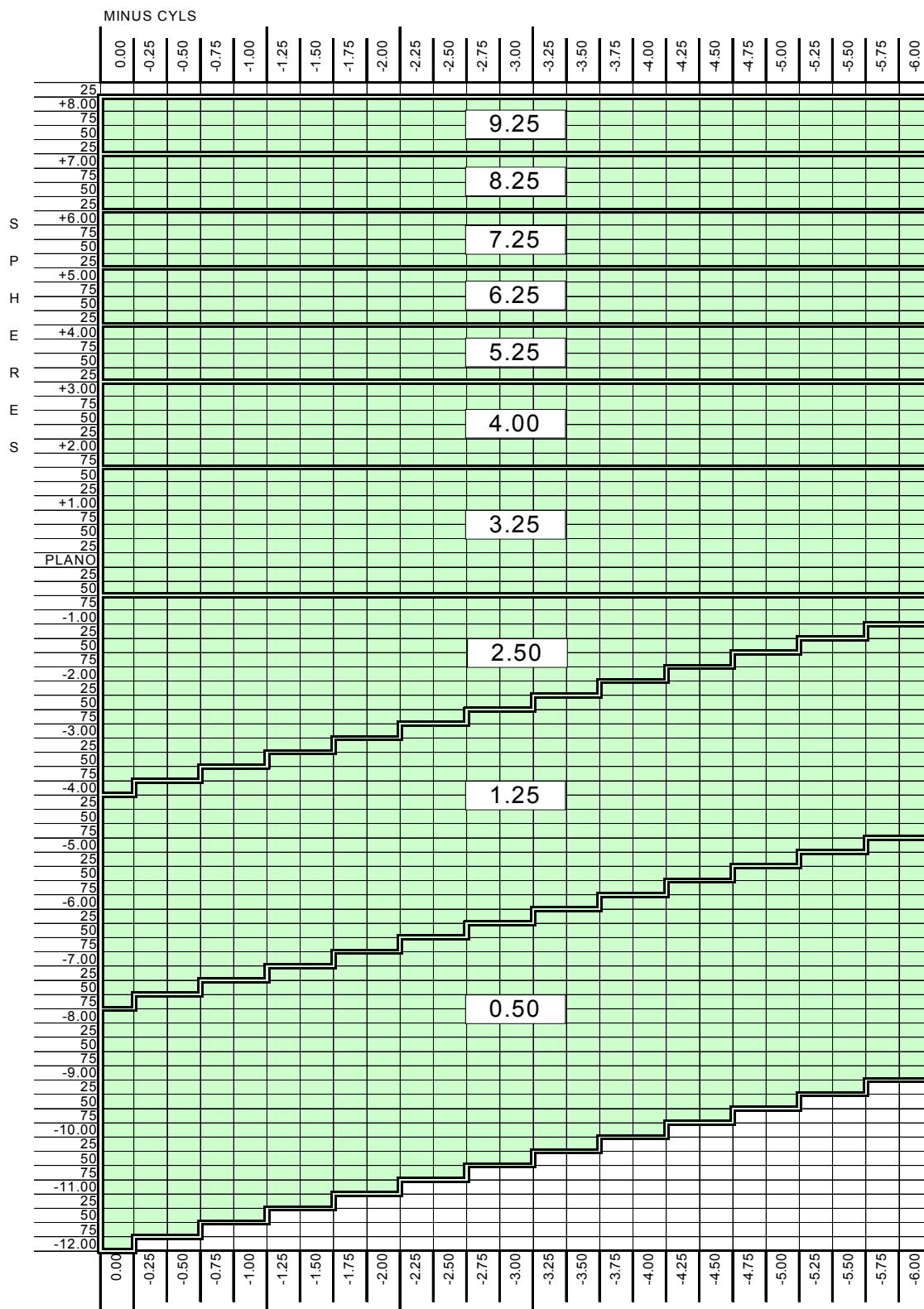
Product Markings:Semi-Visible MarkingsBack Surface**Surfacing:**

Recommended Centre & Edge Thicknesses

Power Range	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-12.00 D to -2.00 D	1.5	
-1.75 D to +1.25 D	2.0 or *	1.0 *
+1.50 D to +3.75 D		1.0
+4.00 D to +8.00 D		0.5

* Thicknesses are based on whichever is the limiting factor.

Recommended Range Chart:



Substrate : **POLYCARBONATE**
 Product Name : **ASPHERIC SINGLE VISION**
 Product Type : **SEMI-FINISHED BLANKS** Cat Codes: **UT-327 PG-782**
 Reference : **F0102204_5**
 Date : 2 November 2007

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Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)	
80	1.00	-10.00	to -6.00
80	2.00	-5.75	to -4.00
80	3.00	-3.75	to -2.00
80	3.75	-1.75	to Plano
80	4.75	+0.25	to +2.00
80	5.75	+2.25	to +3.00
80	6.50	+3.25	to +4.00
80	7.25	+4.25	to +5.00
80	8.00	+5.25	to +6.00

Material & Coating Specifications:

Type	Polycarbonate
Refractive Index	$\eta_d = 1.586$ (Helium 'd' line 587.56 nm), $\eta_e = 1.590$ (Mercury 'e' line 546.07 nm)
Abbe Number	$v_d = 30$, $v_e = 29$
Density	1.20 g.cm^{-3}
UV Transmittance	UVA :100%, UVB 100%: (Coated 2.0 mm Centre Thickness)
Coating	Perma-Gard, TM or Ultra-Tough TM

Blank Information:

Nominal Base (D)	Radius (mm)	True Front Curve (D) (1.530)	True Front Curve (D) (1.586)	Central Curve Sag @ 50mm (mm)	Nominal Back Curve (D)	Centre Thickness (mm) (± 1.0)	Nominal Edge Thickness (mm)	Nominal Packaged weight (g)
1.00	495.33	1.07	1.18	0.63	-5.75	10.7	17.8	93
2.00	266.33	1.99	2.20	1.18	-5.75	10.7	16.5	89
3.00	184.03	2.88	3.18	1.71	-5.75	10.7	15.3	85
3.75	140.58	3.77	4.17	2.24	-5.75	10.7	13.9	81
4.75	112.29	4.72	5.22	2.82	-5.75	10.7	12.6	77
5.75	94.81	5.59	6.18	3.36	-5.75	10.7	11.2	73
6.50	82.29	6.44	7.12	3.89	-8.00	9.5	12.8	73
7.25	73.20	7.24	8.00	4.40	-8.00	10.4	12.2	74
8.00	65.51	8.09	8.95	4.96	-8.00	11.7	11.9	78

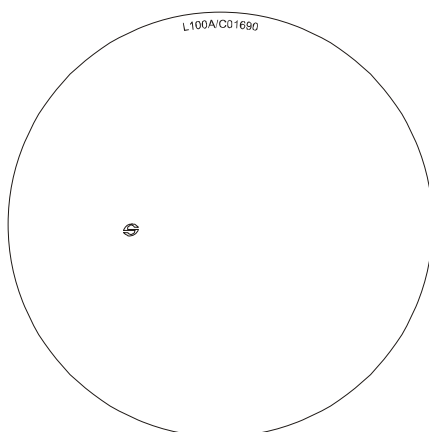
For External Distribution

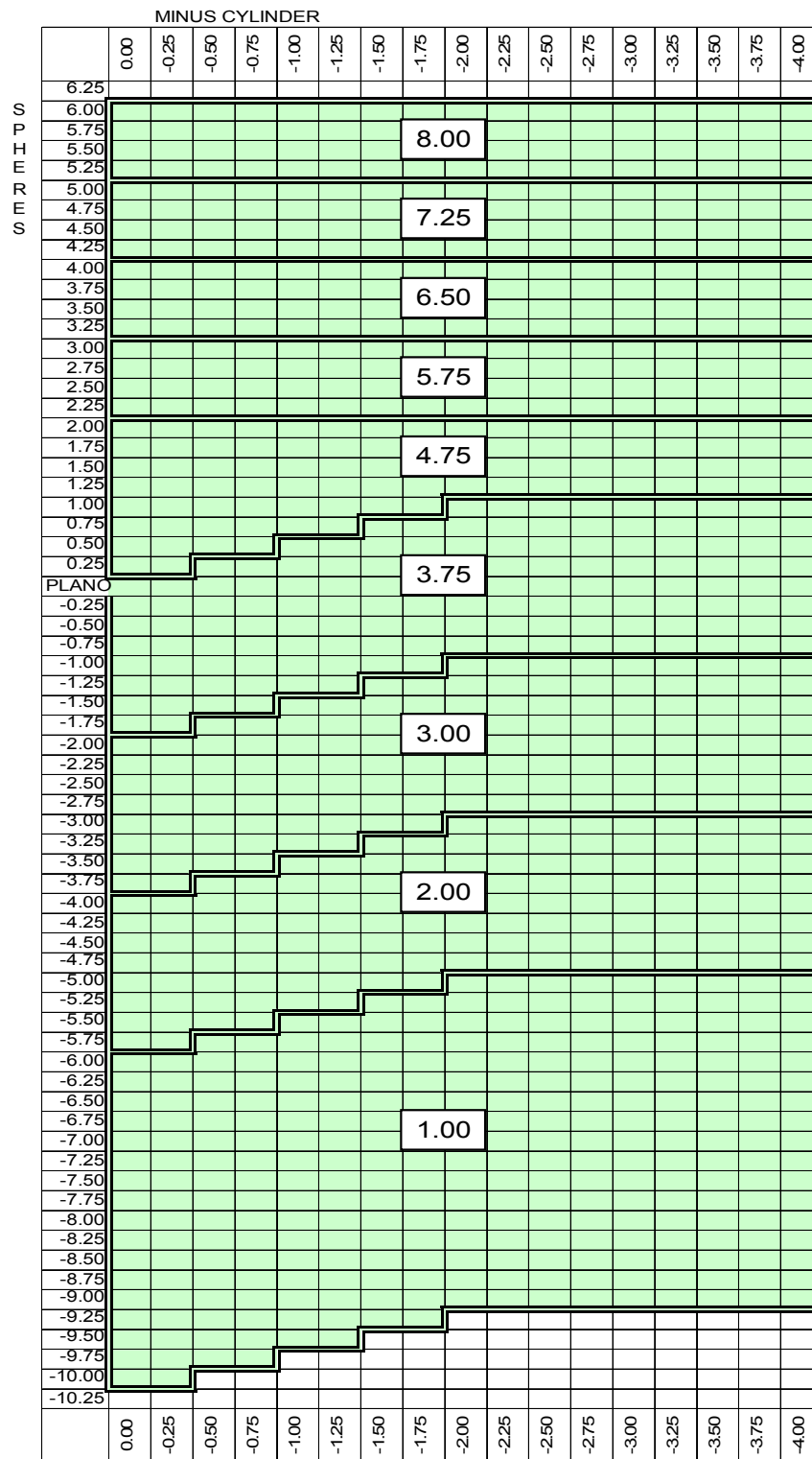
Surfacing:

Recommended Centre & Edge Thicknesses

Rx Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 to 0.00	1.5	
+0.25 to +6.00		1.5

* Thicknesses are based on whichever is the limiting factor.

Product Markings:Front Surface: Semi-Visible MarkingsBack Surface: Coding

Recommended Range Chart:

PRODUCT FACT SHEET



CARL ZEISS VISION

Substrate : **POLYCARBONATE PhotoFusion®**

Product Name : **ASPHERIC SINGLE VISION**

Product Type : **SEMI-FINISHED BLANKS**

Reference : 00213.FS2

Date : 22 March 2012

Page : 1 of 3

Product Range:

CAT Code	
Brown	F28
Grey	F27

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended RX Range (D)		
78	1.00	-10.00	to	-6.00
78	2.00	-5.75	to	-4.00
78	3.00	-3.75	to	-2.00
78	3.75	-1.75	to	Plano
78	4.75	+0.25	to	+2.00
78	5.75	+2.25	to	+3.00
78	6.50	+3.25	to	+4.00
78	7.25	+4.25	to	+5.00
78	8.00	+5.25	to	+6.00

Material & Coating Specifications:

Type	Polycarbonate
Refractive Index	$n_d = 1.586$ (Helium 'd' line 587.56 nm), $n_e = 1.590$ (Mercury 'e' line 546.07 nm)
Abbe Number	$v_d = 30$, $v_e = 29$
Density	1.20 g.cm^{-3}
UV Protection (ISO)	UVA : 100% UVB : 100% Coated , Activated : 2.0mm Centre Thickness
Coating	Hard Coated

For External Distribution

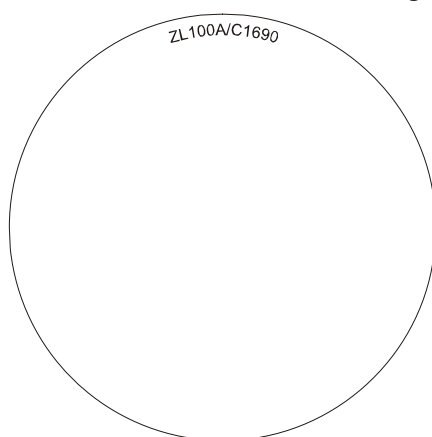
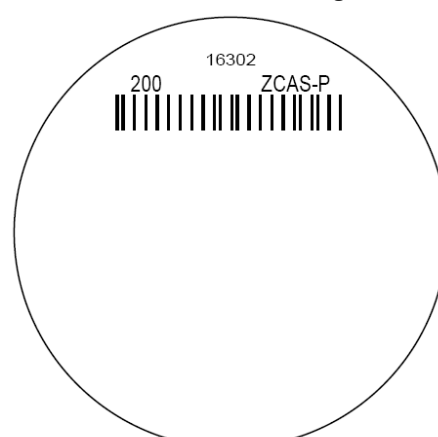
Blank Information: (Curves measured in 1.530 Index, at the Geometric Centre)

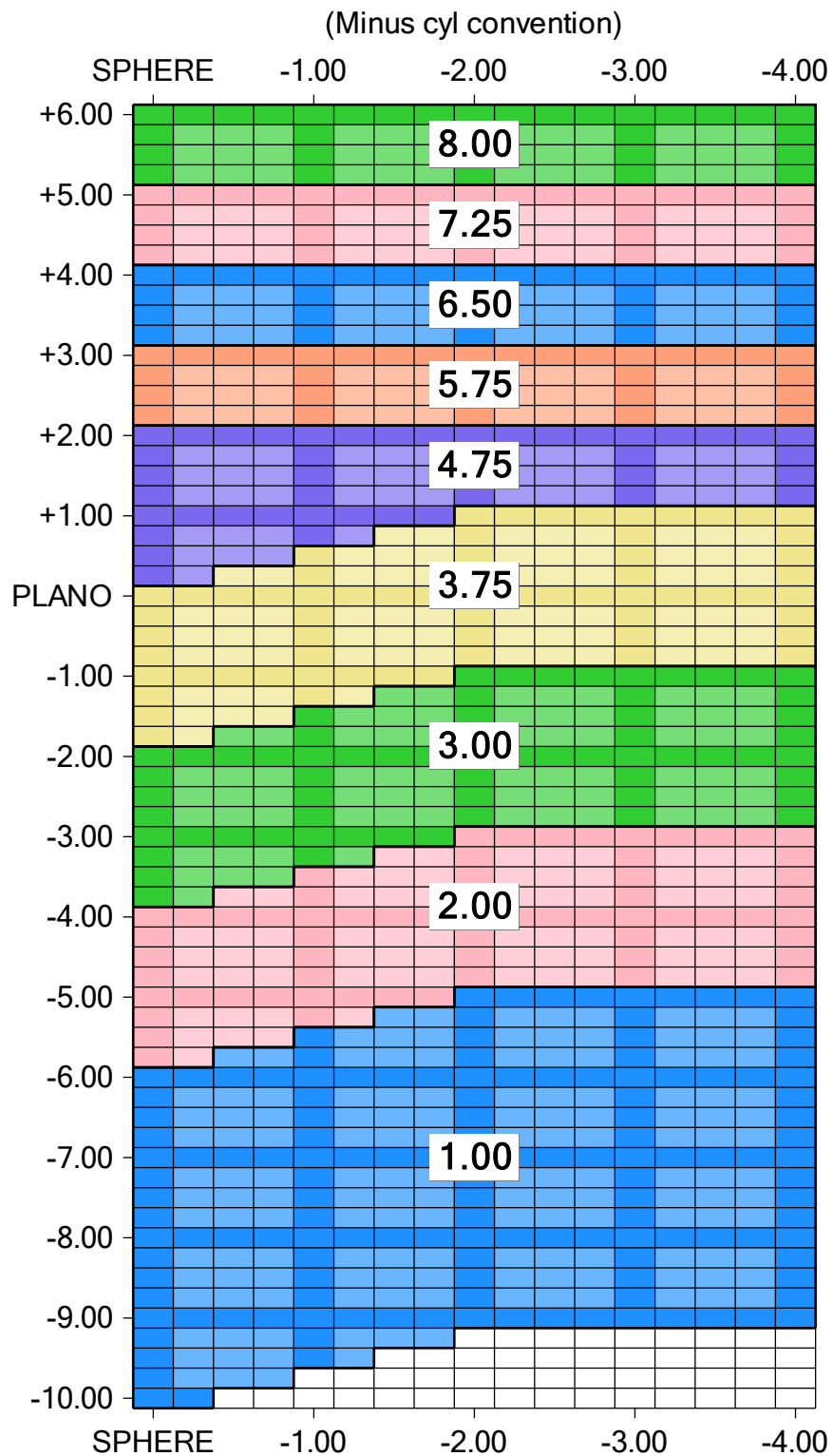
Nominal Base (D)	Radius (mm)	True Front Curve (D)	Central Curve Sag @ 50mm (mm)	Nominal Back Curve (D)	Centre Thickness (mm)	Nominal Edge Thickness (mm)	Nominal Packaged Weight (g)
1.00	490.74	1.08	0.637	-5.75	10.7 ± 1.0	17.8	93
2.00	265.0	2.00	1.182	-5.75	10.7 ± 1.0	16.5	89
3.00	183.39	2.89	1.712	-5.75	10.7 ± 1.0	15.3	85
3.75	140.21	3.78	2.247	-5.75	10.7 ± 1.0	13.9	81
4.75	112.05	4.73	2.825	-5.75	10.7 ± 1.0	12.6	77
5.75	94.64	5.60	3.362	-5.75	10.7 ± 1.0	11.2	73
6.50	82.17	6.45	3.895	-8.00	9.5 ± 1.0	12.8	73
7.25	73.0	7.26	4.414	-8.00	10.4 ± 1.0	12.2	74
8.00	65.35	8.11	4.971	-8.00	11.7 ± 1.0	11.8	78

Surfacing: Recommended Centre & Edge Thickness

Rx Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 to 0.00	1.5	-
+0.25 to +6.00	-	1.5

* Thicknesses are based on whichever is the limiting factor.

Product Markings:Front Surface : Semi-Visible MarkingsBack Surface Markings

RX Range Chart:



PRODUCT FACT SHEET

Substrate	:	POLYCARBONATE TRANSITIONS® SIGNATURE VII		
Product Name	:	ASPHERIC SINGLE VISION		
Product type	:	SEMI-FINISHED BLANKS		
Reference	:	00347.FS2		
Date	:	27 November 2013	Page	: 1 of 3

Product Range:

Europe Region:

Product:	Brown HC	Gray HC
LGC:	L6318	L6319
Cat Code:	V88	V89

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)
78	1.00	-10.00 to -6.00
78	2.00	-5.75 to -4.00
78	3.00	-3.75 to -2.00
78	3.75	-1.75 to Plano
78	4.75	+0.25 to +2.00
78	5.75	+2.25 to +3.00
78	6.50	+3.25 to +4.00
78	7.25	+4.25 to +5.00
78	8.00	+5.25 to +6.00

Material & Coating Specifications:

Type	Polycarbonate
Refractive Index	$n_d = 1.586$ (Helium 'd' line 587.56nm) $n_e = 1.590$ (Mercury 'e' line 546.07nm)
Abbe Number	$v_d = 30$ $v_e = 29$
Density	1.20 g.cm ⁻³
UV Protection (ISO)	UVA: 100%, UVB: 100% (Coated: 2mm Centre Thickness)
Coating Type	Hard Coated

For External Distribution

©2013 Carl Zeiss Vision Inc.
Transitions is a registered trademark of Transitions Optical Inc.

Reference	:	00347.FS2			
Date	:	27 November 2013	Page	:	2 of 3

Blank Information:

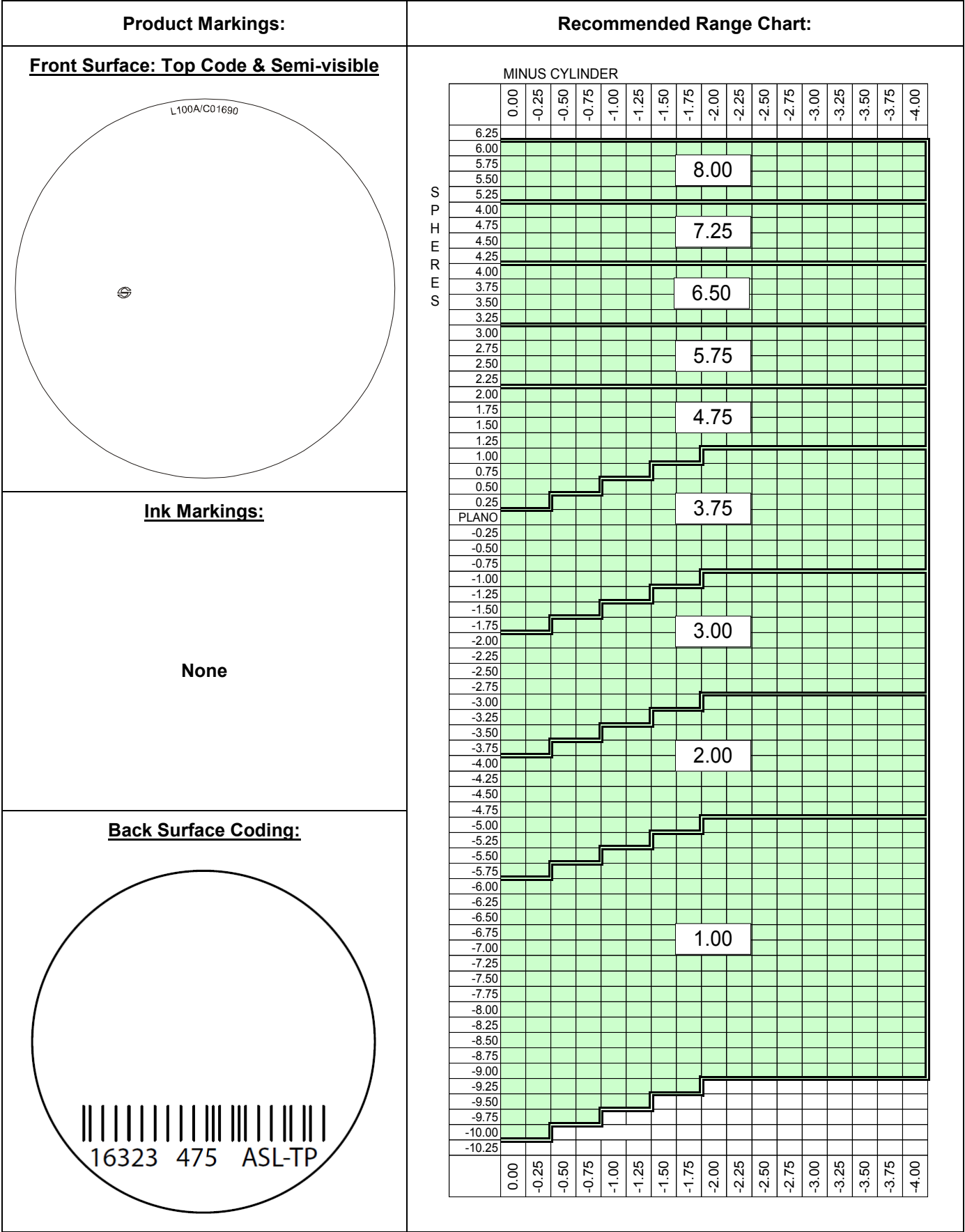
Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (±1.0mm)	Nominal Edge Thickness (mm)
1.00	490.74	1.08	-5.75	10.7	17.8
2.00	265.0	2.00	-5.75	10.7	16.5
3.00	183.39	2.89	-5.75	10.7	15.3
3.75	140.21	3.78	-5.75	10.7	13.9
4.75	112.05	4.73	-5.75	10.7	12.6
5.75	94.64	5.60	-5.75	10.7	11.2
6.50	82.17	6.45	-8.00	9.5	12.8
7.25	73.0	7.26	-8.00	10.4	12.2
8.00	65.35	8.11	-8.00	11.7	11.8

Surfacing:

Recommended Centre & Edge Thicknesses

Rx Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 to 0.00	1.5	-
+0.25 to +6.00	-	1.5

* Thicknesses are based on whichever is the limiting factor.





PRODUCT FACT SHEET

Substrate	:	POLYCARBONATE		
Product Name	:	TRANSITIONS® VANTAGE SINGLE VISION		
Product type	:	SEMI-FINISHED BLANKS		
Reference	:	00313.FS1		
Date	:	11 March 2014	Page	: 1 of 3

Product Range:

Product:	Hard Coated - Grey
CAT Code:	R84
LGC Code:	L6290

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)
72 mm	0.50	-12.00 to -10.75
72 mm	1.00	-10.50 to -8.75
72 mm	2.00	-8.50 to -6.75
72 mm	3.00	-6.50 to -5.00
72 mm	4.00	-4.75 to -3.25
72 mm	5.00	-3.00 to -1.50
72 mm	6.00	-1.25 to +1.25
72 mm	7.00	+1.50 to +3.00
72 mm	7.80	+3.25 to +4.75
72 mm	8.00	+5.00 to +6.50

Material & Coating Specifications:

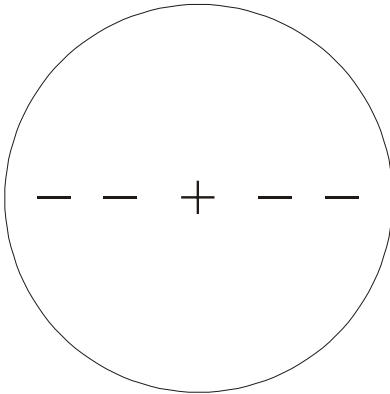
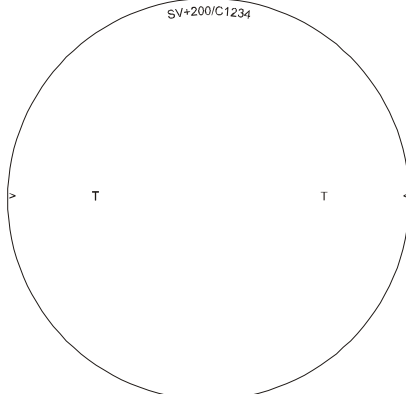
Type	POLYCARBONATE
Refractive Index	$n_d = 1.586$ $n_e = 1.590$
Abbe Number	$v_d = 30$ $v_e = 29$
Density	1.20 g.cm^{-3}
UV Protection (ISO)	2.0mm Centre Thickness. UVA: 100 %, UVB: 100 % (ISO 8980-3, ANSI Z80-1)
Coating Type	Hard Coated

For External Distribution

The Zeiss logo is a trademark of Carl Zeiss Vision Inc.
Transitions is a registered trademark of Transitions Inc.

Blank Information:

Nominal Base (D)	Radius (mm)	True Front Curve (D)	Nominal Back Curve (D)	Centre Thickness ($\pm 1.0\text{mm}$)	Nominal Edge Thickness (mm)
0.50	746.48	0.71	-5.75	10.4	16.9
1.00	407.69	1.30	-5.75	9.4	15.1
2.00	250.00	2.12	-5.75	8.9	13.6
3.00	171.52	3.09	-5.75	8.4	11.9
4.00	131.51	4.03	-5.75	8.4	10.7
5.00	105.58	5.02	-5.75	8.4	9.4
6.00	93.97	5.64	-5.75	8.4	8.5
7.00	81.92	6.47	-5.75	8.4	7.3
7.01*	81.29	6.52	-8.00	10.5	12.7
7.10	74.23	7.14	-8.00	9.0	10.3
7.80	67.86	7.81	-8.00	9.0	9.3
8.00	62.43	8.49	-8.00	9.4	8.6

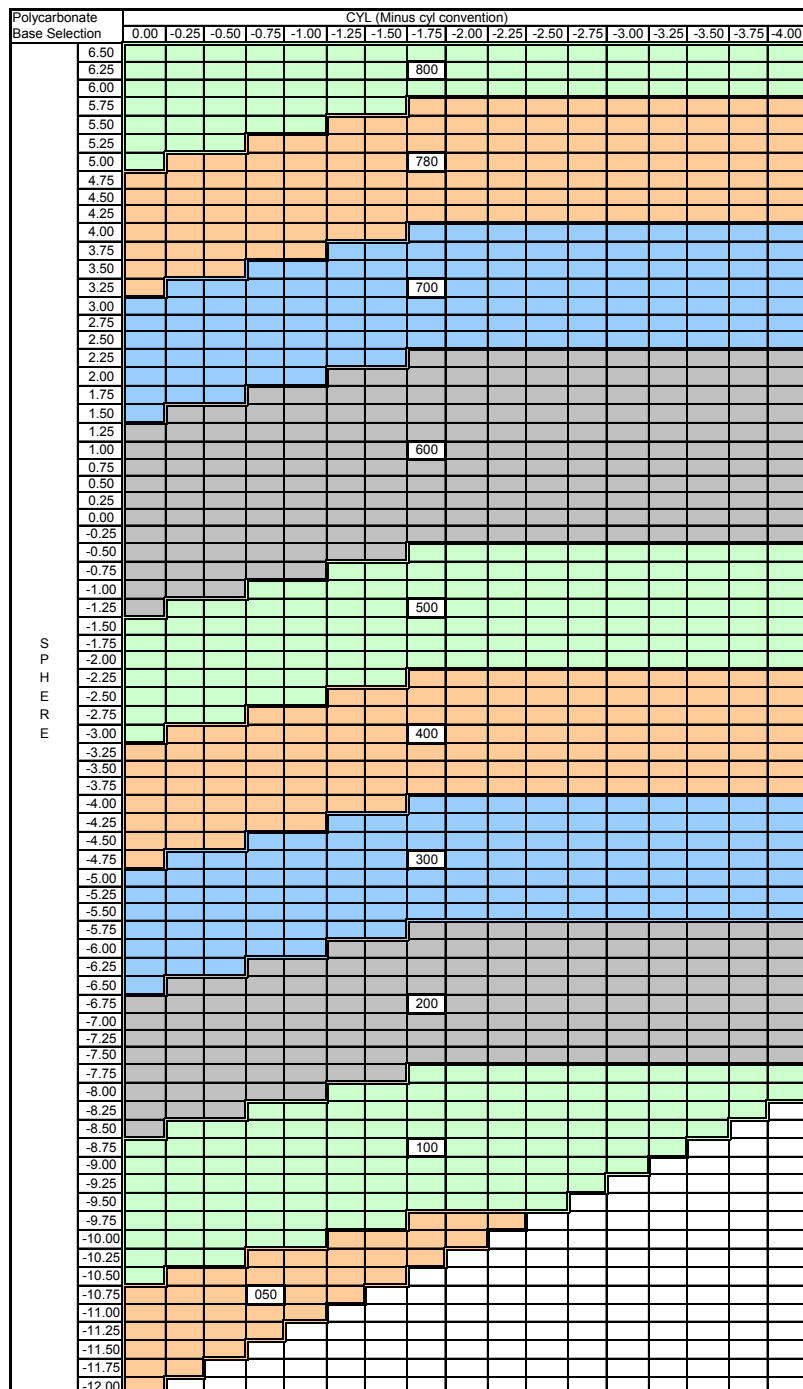
Front Surface Ink Markings	Front Surface Semi-visible Markings	Back surface markings
		
Axis alignment ink marking indicating horizontal polarised axis orientation (Yellow)	- Cast on semi visible Code identifying material, base curve and unique ID. Due to the thickness of the coating treatment this code may become obscure - Transitions applied semi-visible "T" symbols positioned 20mm from centre and ">" , "<" markings at the edge of the blank indicating horizontal polarised axis orientation	- Laser applied visible barcode and text indicating, Base Code, Barcode and number and Product Code. - Mould tracking code eg C1234 - Semi-visible Transitions applied 2d matrix code and text identifying base curve.

Surfacing:

Recommended centre & edge thicknesses for all regions:

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-12.00 to -2.00	2.0	1.5	
-1.75 to +2.00	2.0 or *	2.0 or *	1.0 *
+2.25 to +4.00			1.0
+4.25 to +6.50			0.5

*Thicknesses are based on whichever is the limiting factor

Recommended Range Chart:

Substrate	:	POLYCARBONATE TRANSITIONS® XTRActive™	Cat Code: B19
Product Name	:	ASPHERIC SINGLE VISION	
Product Type	:	SEMI-FINISHED BLANKS	
Reference	:	00205.FS1	
Date	:	19 November 2010	Page : 1 of 2

Product Range: Available in Gray

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)	
78	1.00	-10.00	to -6.00
78	2.00	-5.75	to -4.00
78	3.00	-3.75	to -2.00
78	3.75	-1.75	to Plano
78	4.75	+0.25	to +2.00
78	5.75	+2.25	to +3.00
78	6.50	+3.25	to +4.00
78	7.25	+4.25	to +5.00
78	8.00	+5.25	to +6.00

Material & Coating Specifications:

Type	Polycarbonate
Refractive Index	$\eta_d = 1.586$ (Helium 'd' line 587.56 nm), $\eta_e = 1.590$ (Mercury 'e' line 546.07 nm)
Abbe Number	$v_d = 30$, $v_e = 29$
Density	1.20 g.cm^{-3}
UV Transmittance	UVA :100%, UVB 100%: (Coated 2.0 mm Centre Thickness)
Coating	Ultra-Tough™

Blank Information:

Nominal Base (D)	Radius (mm)	True Front Curve (D) (1.530)	Central Curve Sag @ 50mm (mm)	Nominal Back Curve (D)	Centre Thickness (mm)	Nominal Edge Thickness (mm)	Nominal Packaged weight (g)
1.00	490.74	1.08	0.637	-5.75	10.7 ± 1.0	17.5	92
2.00	265.0	2.00	1.182	-5.75	10.7 ± 1.0	16.2	89
3.00	183.39	2.89	1.712	-5.75	10.7 ± 1.0	15.0	85
3.75	140.21	3.78	2.247	-5.75	10.7 ± 1.0	13.7	82
4.75	112.05	4.73	2.825	-5.75	10.7 ± 1.0	12.4	78
5.75	94.64	5.60	3.362	-5.75	10.7 ± 1.0	11.0	74
6.50	82.17	6.45	3.895	-8.00	9.8 ± 1.0	13.3	76
7.25	73.0	7.26	4.414	-8.00	10.4 ± 1.0	12.0	74
8.00	65.35	8.11	4.971	-8.00	12.0 ± 1.0	12.3	80

For External Distribution

The 'eye' logo, SOLA, Ultra -Tough are trademarks of Carl Zeiss Vision Inc.
Transitions is a registered trademark of Transitions Optical Inc.
XTRActive is a trademark of Transitions Optical Inc

Surfacing:

Recommended Centre & Edge Thicknesses

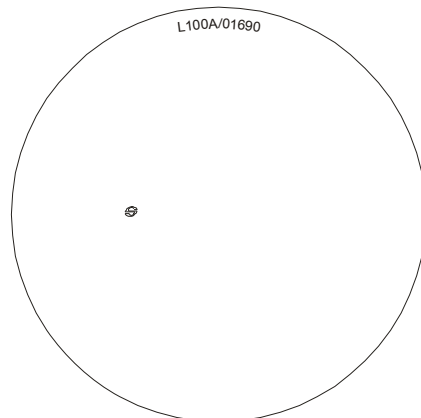
Rx Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 to 0.00	1.5	-
+0.25 to +6.00	-	1.5

* Thicknesses are based on whichever is the limiting factor.

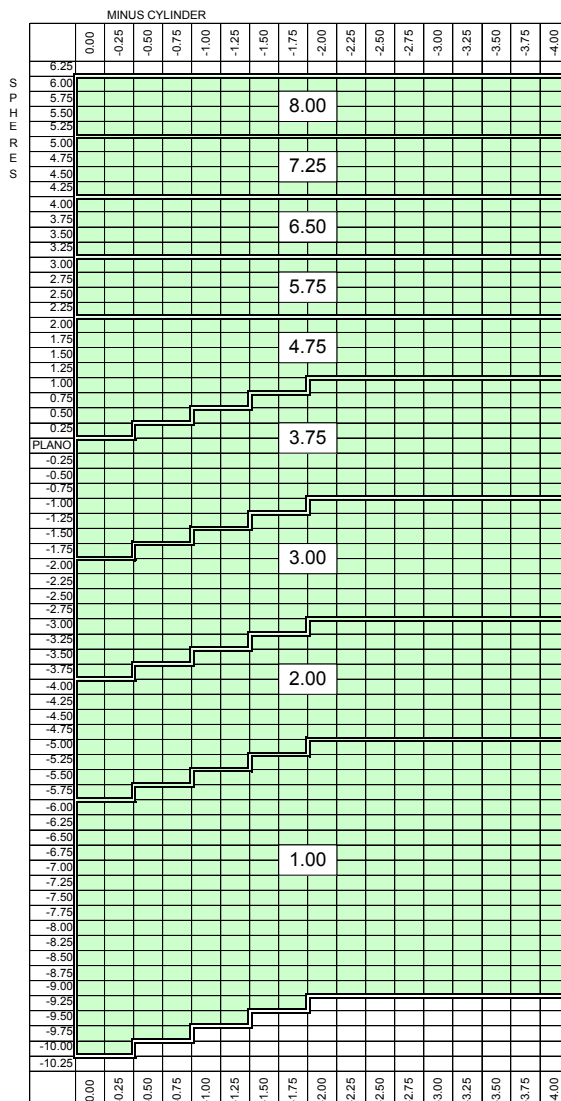
Product Markings:

Front Surface : Semi-Visible Markings

(Except for 2.00 Base)



RX Range Chart:



Substrate	:	POLYCARBONATE	
Product Name	:	SV+ SPHERICAL SINGLE VISION	
Product Type	:	SEMI-FINISHED BLANKS	Cat Codes: UT-424 PG-232
Reference	:	F0102271_7	
Date	:	5 July 2007	Page : 1 of 2

Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)	
74	0.50	-14.00	to -11.75
74	1.00	-11.50	to -9.50
74	2.00	-9.25	to -7.25
74	3.00	-7.00	to -5.00
74	4.00	-4.75	to -3.25
74	5.00	-3.00	to -1.75
74	6.00	-1.50	to +1.25
74	7.00	+1.50	to +3.00
74	8.00	+3.25	to +7.00

Material & Coating Specifications:

Type	Polycarbonate
Refractive Index	$\eta_d = 1.586$ $\eta_e = 1.590$
Abbe Number	$v_d = 30$ $v_e = 29$
Density	1.20 g.cm ⁻³
UV Protection (ISO)	Coated : 1.5 mm centre Thickness UVA : 100 % UVB : 100 %
Coating Type	Perma-Gard™ and Ultra-Tough™

Blank Information:

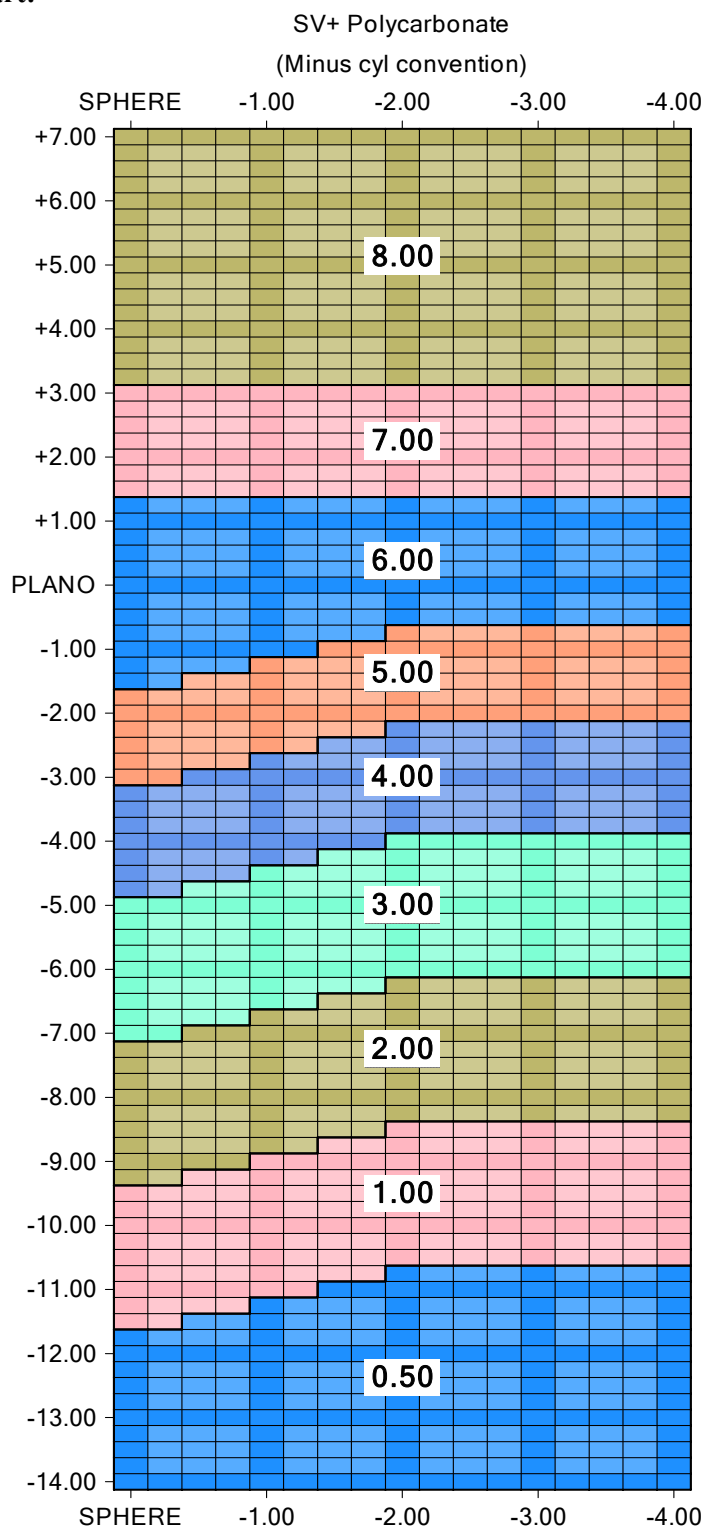
Nominal Base (D)	Radius (mm)	True Front Curve (D) (1.530)	True Front Curve (D) (1.586)	Central Curve Sag @ 50mm (mm)	Nominal Back Curve (D)	Centre Thickness (mm) (± 1.0)	Nominal Edge Thickness (mm)	Nominal Packaged Weight (g)
0.50	803.03	0.66	0.73	0.39	-5.75	10.4	17.5	82
1.00	410.85	1.29	1.43	0.76	-5.75	9.4	15.7	74
2.00	253.59	2.09	2.31	1.24	-5.75	8.9	14.1	69
3.00	172.64	3.07	3.39	1.82	-5.75	8.4	12.3	62
4.00	132.50	4.00	4.42	2.38	-5.75	8.4	11.0	59
5.00	106.00	5.00	5.53	2.99	-5.75	8.4	9.5	56
6.00	94.31	5.62	6.21	3.37	-5.75	8.4	8.6	53
7.00	82.04	6.46	7.14	3.90	-5.75	8.4	7.3	50
8.00	62.57	8.47	9.36	5.21	-8.00	9.4	8.6	56

For External Distribution

Surfacing:**Recommended Centre & Edge Thicknesses**

Power Range (D)	Minimum Centre Thickness	Minimum Edge Thickness
-14.00 to -2.00	1.5 mm	
-1.75 to +2.00	1.5 mm or*	1.0 mm*
+2.25 to +7.00		0.5 mm

* Thicknesses are based on whichever is the limiting factor.

Recommended Range Chart:



PRODUCT FACT SHEET

Substrate	:	POLYCARBONATE			
Product Name	:	SOLA SPHERICAL SINGLE VISION			
Product type	:	SEMI-FINISHED BLANKS			
Reference	:	5115302.FS5			
Date	:	24 August 2012	Page	:	1 of 2

Product Codes:

Product:	Hard Coated (PG)
CAT Code:	791
LGC:	L2201

Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)	
74	0.50	-12.00 to	-10.75
74	2.25	-10.50 to	-6.00
74	4.50	-5.75 to	-2.00
74	6.25	-1.75 to	+2.00
74	8.00	+2.25 to	+6.00

Material & Coating Specifications:

Type	Polycarbonate	
Refractive Index	$n_d = 1.586$	$n_e = 1.590$
Abbe Number	$v_d = 30$	$v_e = 29$
Density	1.20 g.cm^{-3}	
UV Protection (ISO)	100% UVA and UVB (from 380nm to 280nm as per ISO 8980-3)	
Coating Type	Perma-Gard™	

Blank Information:

Nominal Base	True Front Curve (D) (1.530)	Radius (mm)	Nominal Back Curve (D)	Centre Thickness ($\pm 1.0\text{mm}$)	Nominal Edge Thickness (mm)
0.50	0.60	883.33	-5.75	10.6	17.8
2.25	2.31	229.44	-5.75	8.8	13.7
4.50	4.51	117.52	-5.75	8.7	10.5
6.25	6.24	84.94	-5.75	9.2	8.5
8.00	8.01	66.17	-8.00	7.2	7.2

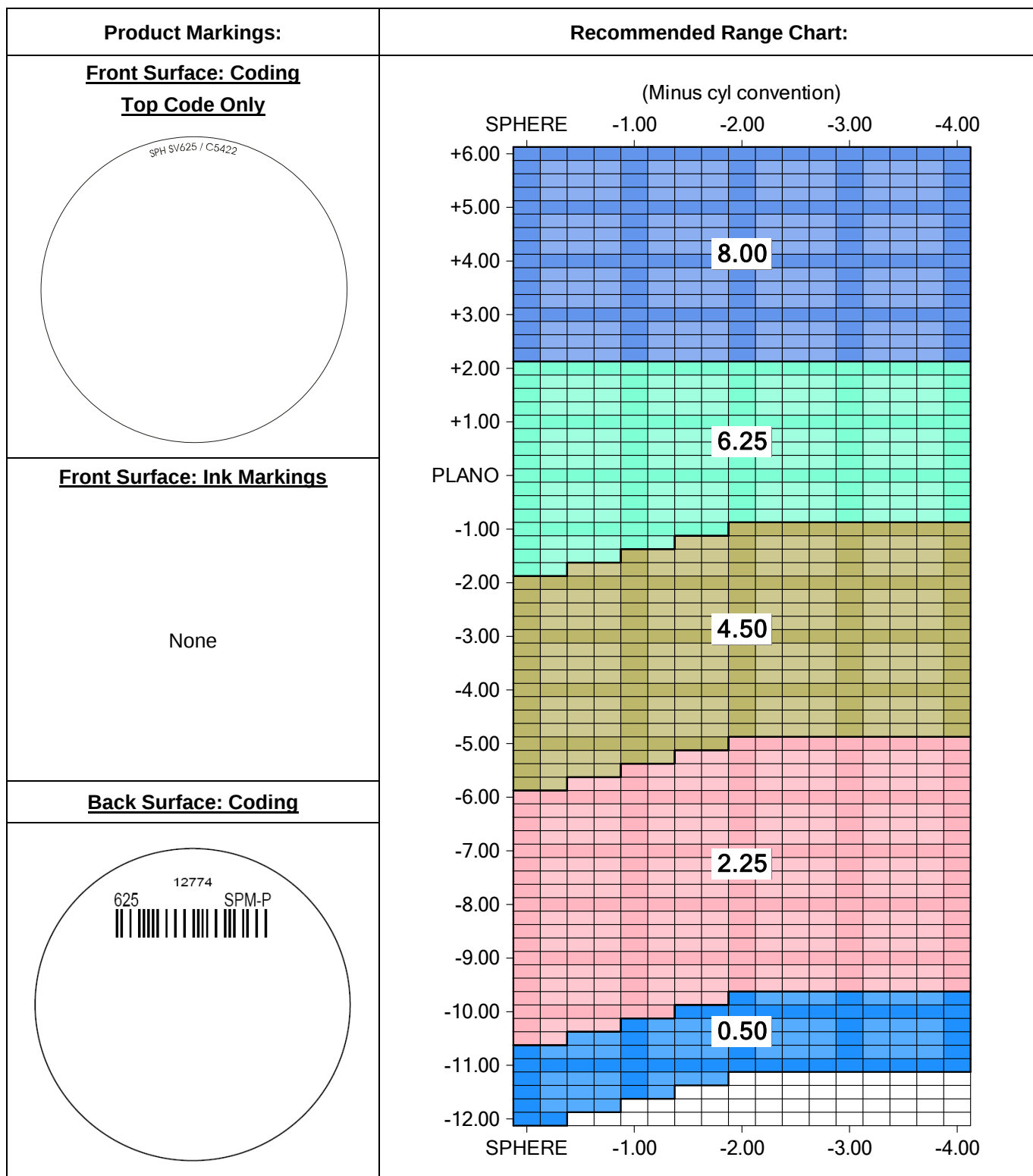
Reference	:	5115302.FS5			
Date	:	24 August 2012	Page	:	2 of 2

Surfacing:

Recommended centre & edge thicknesses for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-12.00 to -2.00	1.5	
-1.75 to +2.00	1.5 or *	1.0 *
+2.25 to +6.00		0.5

* Thicknesses are based on whichever is the limiting factor



Substrate : **POLYCARBONATE**

Product Name : **NUPOLAR® POLARISED
SPHERICAL SINGLE VISION**

Product Type : **SEMI-FINISHED BLANKS**

Cat Code: 656

Reference : F0102261_2

Date : 27 Mar 2002

Page : 1 of 2

Product Range :

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)		
76	0.50	-9.50	to	-6.75
76	2.25	-6.50	to	-4.25
76	4.25	-4.00	to	-1.50
76	6.25	-1.25	to	+2.00
76	8.25	+2.25	to	+6.00

Material & Coating Specifications:

Type	Polycarbonate Polarised Gray 3	
Refractive Index	$\eta_d = 1.586$	$\eta_e = 1.590$
Abbe Number	$v_d = 30$	$v_e = 29$
Density	1.20 g.cm ⁻³	
UV Protection (ISO)	1.6 mm Centre Thickness UVA : 100 % : UVB : 100 %	
Coating Type	Perma-Gard™	

Blank Information :

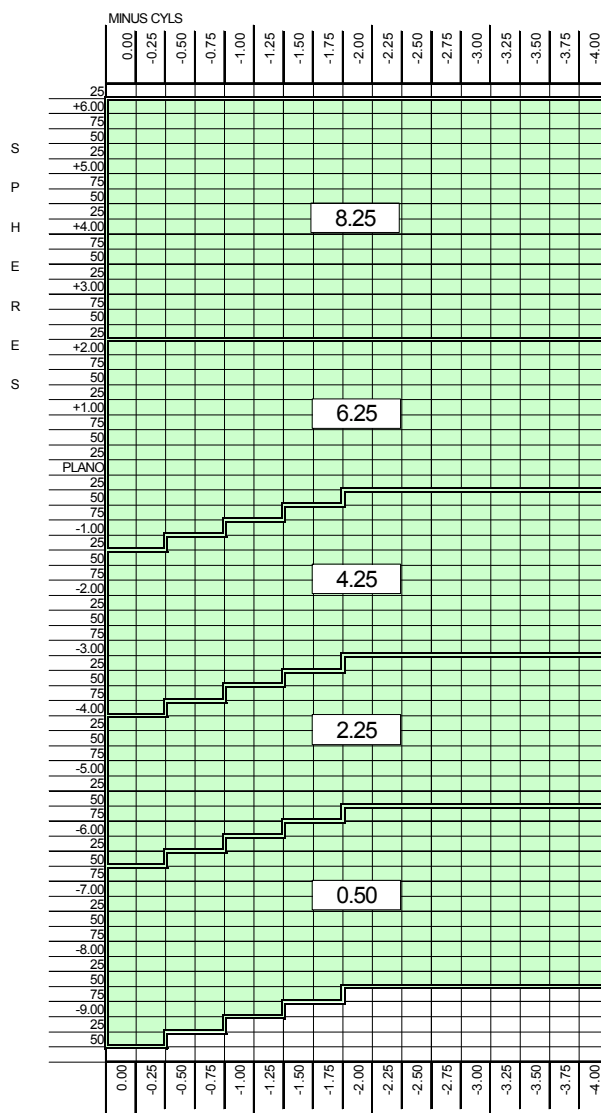
Base	Radius (mm)	True Front Curve (D) (1.530)	True Front Curve (D) (1.586)	Central Curve Sag @ 50mm (mm)	Nominal Back Curve (D) (1.530)	Centre Thickness (±1.0mm)	Nominal Edge Thickness (mm)
0.50	1081.63	0.49	0.54	0.29	-4.25	8.5	13.0
2.25	235.56	2.25	2.49	1.33	-4.25	10.0	12.5
4.25	124.41	4.26	4.71	2.54	-6.25	6.5	9.0
6.25	84.66	6.26	6.92	3.78	-6.25	9.0	8.0
8.25	64.16	8.26	9.13	5.07	-9.50	10.0	11.0

For External Distribution

Surfacing :**Recommended Centre & Edge Thicknesses**

Power Range (D)	Minimum Centre Thickness	Minimum Edge Thickness
-9.50 to -2.00	1.8 mm	
-1.75 to +2.00	1.8 mm or*	1.8 mm*
+2.25 to +6.00		1.8 mm

* Thicknesses are based on whichever is the limiting factor.





PRODUCT FACT SHEET

Substrate	:	TRIVEX 1.53			
Product Name	:	TRIVEX 1.53 SEMI-FINISHED SINGLE VISION			
Product type	:	SEMI-FINISHED BLANKS			
Reference	:	Z00617.FS1			
Date	:	11 March 2015	Page	:	1 of 2

Product Range:

Product:	UNC	HC
CAT Code:	N25	N26
LGC:	L6657	L6658

Blank Information:

Product Base Code	Nominal Diameter (mm)	Front TFC Surface (D)	Front Surface (Radius mm)	Nominal Back (Non-casting) Surface (D)	Centre Thickness (±1.0mm)	Nom. Edge Thickness
0.50	76	0.49	1081.63	4.25	12.5	17.1
1.25	76	1.25	424.00	4.25	10.8	14.4
2.25	76	2.26	234.51	4.25	12.3	14.6
3.25	76	3.26	162.58	4.25	13.4	14.3
4.25	76	4.23	125.30	4.25	14.8	14.5
5.25	76	5.33	99.44	6.25	6.8	7.7
6.25	76	6.24	84.94	6.25	8.1	7.4
7.25	76	7.33	72.31	6.25	9.8	7.5
8.25	76	8.27	64.09	6.25	11.3	7.3

Material & Coating Specifications:

Type	TRIVEX®	
Refractive Index	$n_d = 1.527$	$n_e = 1.530$
Abbe Number	$v_d = 45$	$v_e = 45$
Density	1.11 g/cm	
UV Protection (ISO)	UVA: 100 %, UVB: 100 %	
Coating Type	Younger Hardcoat	

Reference	:	Z00617.FS1		
Date	:	11 March 2015	Page	: 2 of 2

Surfacing:

Recommended centre & edge thicknesses for all regions:

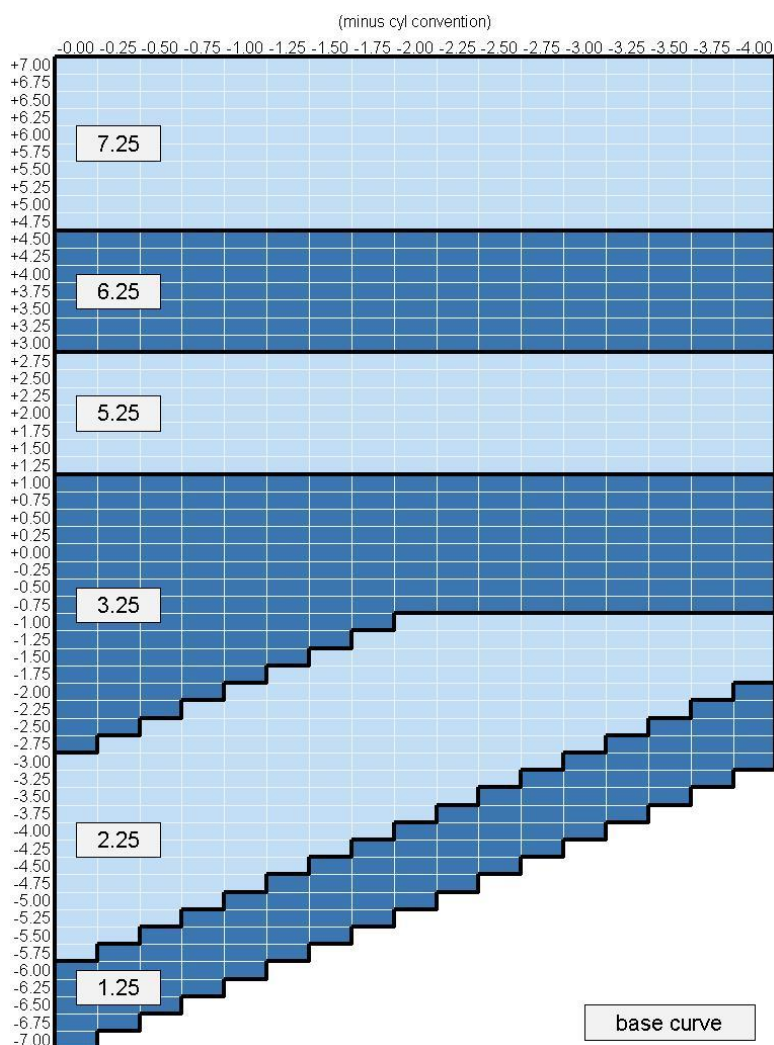
Power Range (D)	USA Market Minimum Centre Thickness	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
High Minus to -2.00	2.0	1.5	
-1.75 to +2.00	2.0 or *	2.0 or *	1.0 *
+2.25 to +4.00			1.0
+4.25 to High Pus			0.5

* Thicknesses are based on whichever is the limiting factor

Product Markings:

Front Surface Markings:	Back Surface: Coding	Ink Markings:
None	None	None

Recommended Base Curve Chart:





PRODUCT FACT SHEET

Substrate	:	TRIVEX 1.53 TRANSITIONS® SIGNATURE VII			
Product Name	:	TRIVEX 1.53 TRANSITIONS 7 SEMI-FINISHED SINGLE VISION			
Product type	:	SEMI-FINISHED BLANKS			
Reference	:	Z00618.FS1			
Date	:	11 March 2015	Page	:	1 of 2

Product Range:

Product:	Brown HC	Gray HC	Brown UNC	Gray UNC
CAT Code:	N28	N27	N30	N29
LGC:	L6660	L6659	L6662	L6661

Blank Information:

Product Base Code	Nominal Diameter (mm)	Front TFC Surface (D)	Front Surface (Radius mm)	Nominal Back (Non-casting) Surface (D)	Centre Thickness (±1.0mm)	Nom. Edge Thickness
0.50	76	0.49	1081.63	4.25	12.5	17.1
1.25	76	1.25	424.00	4.25	10.8	14.4
2.25	76	2.26	234.51	4.25	12.3	14.6
3.25	76	3.26	162.58	4.25	13.4	14.3
4.25	76	4.23	125.30	4.25	14.8	14.5
5.25	76	5.33	99.44	6.25	6.8	7.7
6.25	76	6.24	84.94	6.25	8.1	7.4
7.25	76	7.33	72.31	6.25	9.8	7.5
8.25	76	8.27	64.09	6.25	11.3	7.3

Material & Coating Specifications:

Type	TRIVEX®	
Refractive Index	$n_d = 1.527$	$n_e = 1.530$
Abbe Number	$v_d = 45$	$v_e = 45$
Density	1.11 g/cm	
UV Protection (ISO)	UVA: 100 %, UVB: 100 %	
Coating Type	PPG HiGard 1080	

For External Distribution

Reference	:	Z00618.FS1		
Date	:	11 March 2015	Page	: 2 of 2

Surfacing:

Recommended centre & edge thicknesses for all regions:

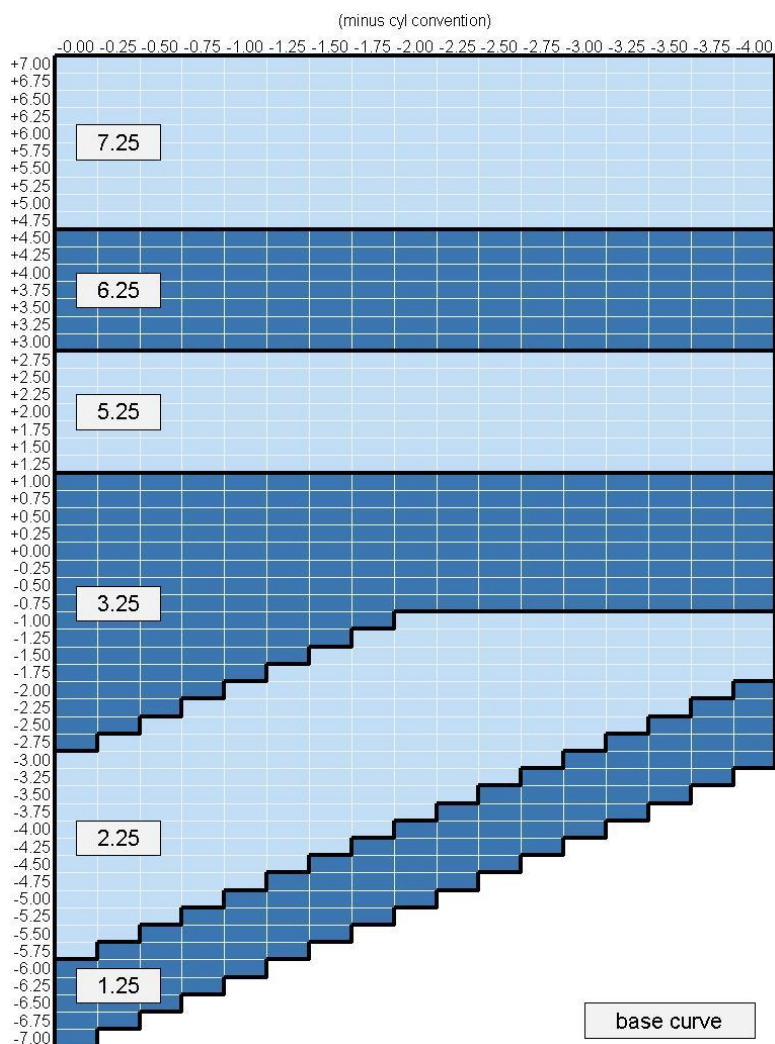
Power Range (D)	USA Market Minimum Centre Thickness	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
High Minus to -2.00	2.0	1.5	
-1.75 to +2.00	2.0 or *	2.0 or *	1.0 *
+2.25 to +4.00			1.0
+4.25 to High Pus			0.5

* Thicknesses are based on whichever is the limiting factor

Product Markings:

Front Surface Markings:	Back Surface: Coding	Ink Markings:
None	Transitions 2 dimensional dot matrix SKU Identifier.	None

Recommended Base Curve Chart:





PRODUCT FACT SHEET

Substrate	:	1.53 TRIVEX®		
Product Name	:	SPHERICAL SINGLE VISION		
Product type	:	SEMI-FINISHED BLANKS		
Reference	:	00286SFSV.FS1		
Date	:	2 May 2013	Page	: 1 of 3

Product Codes:

Product:	CAT Code: Dia. 75 / 80	Lens Group Code:
NXT Gray – Fixed Tint	B38 / B39	L5758
NXT Gray – Fixed Tint Silver Mirror	B40 / B41	L5754
NXT Green – Fixed Tint	B42 / B43	L5756
NXT Brown – Fixed Tint	B44 / B45	L5750
NXT Brown – Fixed Tint Gold Mirror	B46 / B47	L5752
NXT Varia Photochromic Gray	B48 / B49	L5749
NXT Varia Photochromic Brown	B50 / B51	L5746
NXT Varia Photochromic Rose / Copper	B52 / B53	L5747
NXT Varia Photochromic Day Nite	B54 / B55	L5744
NXT Polarized Gray	B56	L5402
NXT Polarized Brown	B57	L5404
NXT Varia Photochromic Polarized Gray	B58	L5045
NXT Varia Photochromic Polarized Brown	B59	L5407

Material & Coating Specifications:

Type	Trivex®	
Refractive Index	$n_d = 1.527$	$n_e = 1.530$
Abbe Number	$v_d = 45$	$v_e = 45$
Density	1.11 g.cm^{-3}	
UV Protection (ISO)	UVA : 100 %, UVB : 100 %	
Coating Type	Hard Coated	

For External Distribution

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Trivex is a registered trademark of PPG Industries Inc.

Reference	:	00286SFSV.FS1			
Date	:	2 May 2013	Page	:	2 of 3

Blank Information – All NOT POLARIZED versions:

Diameter (mm)	Nominal Base (D)	True Front Curve (D) (1.530)	TFC Radius (mm)	Nominal Back Curve (D)	Centre Thickness (+1.0/-0.5mm)	Nominal Edge Thickness (mm)
75	0.50	0.48	1111.00	-5.16	6.0	12.3
75	2.00	2.02	263.00	-5.16	6.0	10.3
75	3.00	3.05	174.00	-5.16	6.5	9.5
75	4.00	4.05	131.00	-5.16	6.0	7.5
75	5.00	5.09	104.20	-5.16	10.0	10.0
75	6.00	6.13	86.50	-6.17	10.0	10.0
80	6.00	6.13	86.50	-6.17	12.0	12.0
75	7.00	7.00	75.71	-6.17	12.0	10.7
75	8.00	8.08	65.50	-8.11	12.0	12.0
80	8.00	8.08	65.60	-8.11	12.0	12.0

All POLARIZED versions:

Diameter (mm)	Nominal Base (D)	True Front Curve (D) (1.530)	TFC Radius (mm)	Nominal Back Curve (D)	Centre Thickness (+1.0/-0.5mm)	Nominal Edge Thickness (mm)
75	6.00	6.13	86.50	-6.17	10.0	10.0
75	7.00	7.00	75.71	-6.17	12.0	10.7
75	8.00	8.08	65.50	-8.11	12.0	12.0

Surfacing:

Recommended centre & edge thicknesses for all regions:

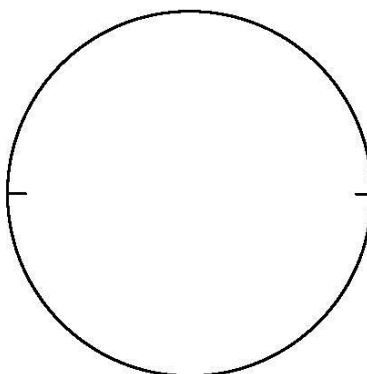
Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
High Minus to -2.00	1.5	
-1.75 to +4.00	1.5*	1.0*
+4.25 to High Plus		1.0

** Thicknesses are based on whichever is the limiting factor*

Product Markings:

Front Surface Curve: Ink Markings – Polarized Only

White – Polarized Axis alignment markings





Product Fact Sheet

Substrate : **HARD RESIN**

Product Name : **66, 70 and 75 mm SPHERICAL SINGLE VISION**

Product Type : **SEMI-FINISHED BLANKS**

Reference : **SD1-2.FS2**

Date : 10 February 2012

Page : 1 of 2

Product Range:

Product:	66mm HC	66mm UNC	70mm HC	70mm UNC	75mm HC	75mm UNC
CAT Code:	989	986	991	984	990	985

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)	
66 & 70	0.50	-18.00	-10.25
66, 70 & 75	2.50	-10.00	to -6.00
66, 70 & 75	3.50	-5.75	to -3.75
66, 70 & 75	4.50	-3.50	to -1.50
66, 70 & 75	5.50	-1.25	to 0.00
66, 70 & 75	6.50	+0.25	to +1.50
66, 70 & 75	7.50	+1.75	to +2.50
66, 70 & 75	8.50	+2.75	to +3.75
66 & 70	9.50	+4.00	to +4.75
66 & 70	10.50	+5.00	to +6.50
66	12.50	+6.75	to +10.00

Material & Coating Specifications:

Type	CR-39 [®]	
Refractive Index	$\eta_d = 1.499$	$\eta_e = 1.500$
Abbe Number	$v_d = 58$	$v_e = 56$
Density	1.32 g.cm ⁻³	
UV Protection (ISO)	2.0 mm Centre Thickness UVA : 91 %, UVB : 100 %	
Coating Type	Hard Coated and Uncoated	

For External Distribution

AO Compact is a registered trademark of Carl Zeiss Vision Inc.
CR-39 is a registered trademark of PPG Industries Inc.

Blank Information:**66mm Product**

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness ($\pm 1.0\text{mm}$)	Nominal Edge Thickness (mm)
0.50	0.37	1432.43	-6.00	9.5	15.0
2.50	2.06	257.28	-6.00	11.2	15.0
3.50	3.24	163.58	-6.00	7.3	9.5
4.50	4.24	125.00	-6.00	7.6	9.5
5.50	5.24	101.15	-6.00	5.6	6.0
6.50	6.36	83.33	-6.00	6.4	6.0
7.50	7.54	70.29	-6.00	7.4	6.0
8.50	8.40	63.95	-6.00	8.3	6.0
9.50	9.51	55.73	-6.00	9.5	6.0
10.50	10.35	51.21	-6.00	10.5	6.0
12.50	12.28	43.16	-6.00	13.4	6.0

70mm Product

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness ($\pm 1.0\text{mm}$)	Nominal Edge Thickness (mm)
0.50	0.37	1432.43	-6.00	9.2	16.0
2.50	2.06	257.28	-6.00	11.2	16.0
3.50	3.24	163.58	-6.00	7.2	10.6
4.50	4.24	125.00	-6.00	8.4	10.6
5.50	5.24	101.15	-6.00	7.0	8.0
6.50	6.36	83.33	-6.00	8.5	8.0
7.50	7.54	70.29	-6.00	10.1	8.0
8.50	8.40	63.95	-6.00	8.9	5.5
9.50	9.51	55.73	-6.00	10.6	5.5
10.50	10.35	51.21	-6.00	12.1	5.5

75mm Product

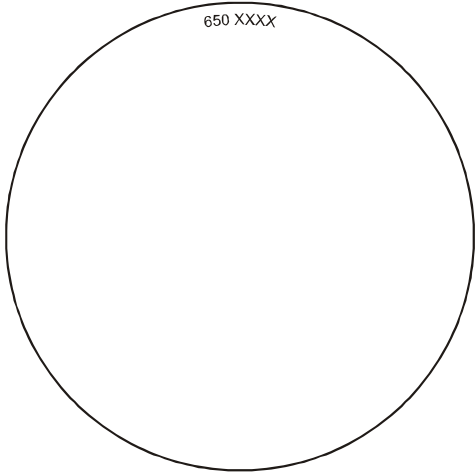
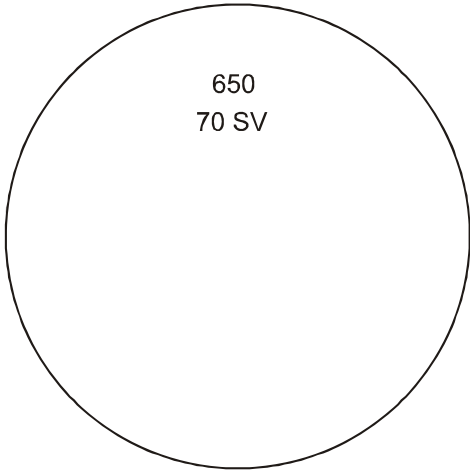
Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness ($\pm 1.0\text{mm}$)	Nominal Edge Thickness (mm)
2.50	2.06	257.28	-6.00	10.5	16.0
3.50	3.24	163.58	-6.00	8.4	12.5
4.50	4.24	125.00	-6.00	9.6	12.5
5.50	5.24	101.15	-6.00	7.2	8.5
6.50	6.36	83.33	-6.00	8.8	8.5
7.50	7.54	70.29	-6.00	10.6	8.5
8.50	8.40	63.95	-6.00	11.5	8.5

Surfacing: Recommended Centre & Edge Thicknesses

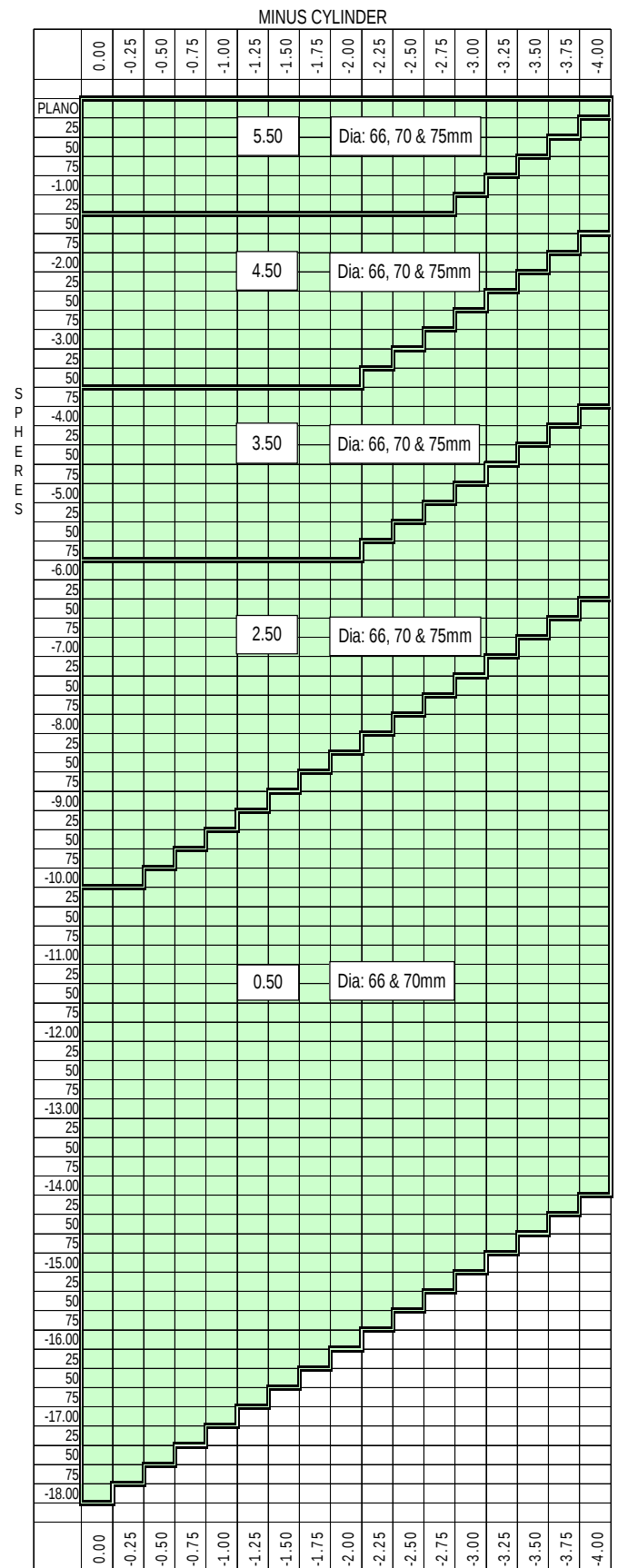
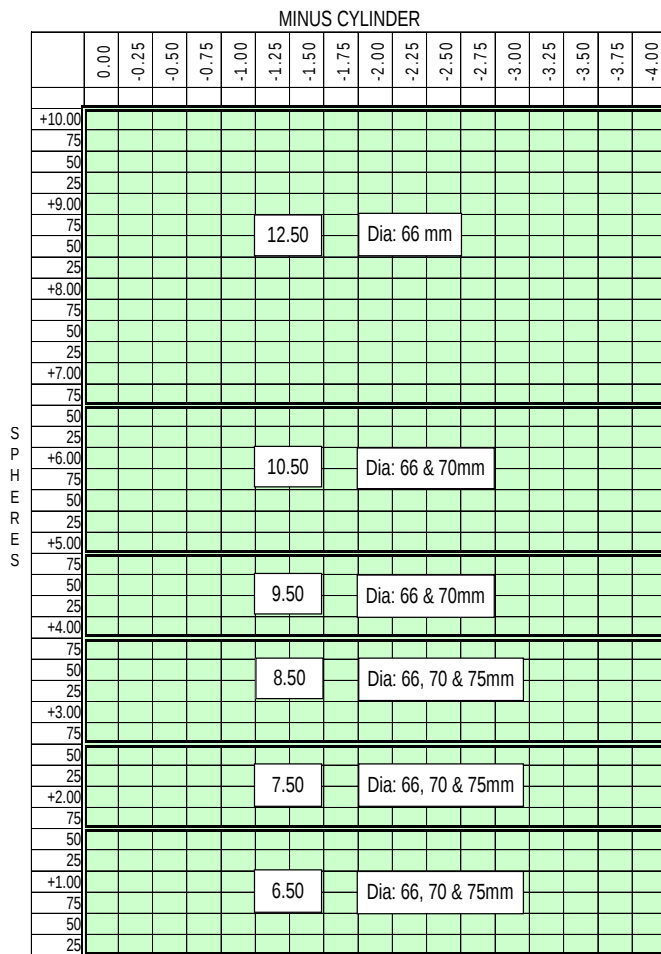
Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-7.00 to -2.00	2.0	1.5	
-1.75 to +2.00	2.0 or *	2.0 or *	1.0 *
+2.25 to +4.00			1.0
+4.25 to +10.00			0.5

* Thicknesses are based on whichever is the limiting factor.

Product Markings: Example 70mm Product.

Front Surface Curve: Top Code Only.	Back Surface Curve: Cast on Visible Code.
	

Recommended Range Chart:



Substrate : **HARD RESIN**

Product Name : **72mm SPHERICAL SINGLE VISION**

Product Type : **SEMI-FINISHED BLANKS**

Specification Reference : 5110103.FS4

Date : 12 January 2012

Page : 1 of 2

Product Range:

Product:	Hard Coated	Uncoated
CAT Code:	511	226

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)	
72	0.50	-12.00	to -7.25
72	2.50	-7.00	to -4.25
72	4.00	-4.00	to -2.25
72	5.00	-2.00	to 0.00
72	6.00	+0.25	to +3.00
72	8.00	+3.25	to +6.50
72	10.00	+6.75	to +9.75

Material & Coating Specifications:

Type	CR-39[®]	
Refractive Index	$\eta_d = 1.499$	$\eta_e = 1.500$
Abbe Number	$v_d = 58$	$v_e = 56$
Density	1.32 g.cm ⁻³	
UV Protection (ISO)	2.0 mm Centre Thickness UVA : 91 % : UVB : 100 %	
Coating Type	Hard Coated & Uncoated	

Blank Information:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0mm)	Nominal Edge Thickness (mm)	Packaged Weight (g)
0.50	0.37	1432	-3.00	12.8	16.0	83
2.50	2.15	247	-6.00	11.0	16.0	77
4.00	3.68	144	-6.00	9.9	13.0	67
5.00	4.77	111	-6.00	11.3	13.0	72
6.00	5.92	89.5	-6.00	7.9	8.0	51
8.00	8.01	66.2	-6.00	11.5	8.5	62
10.00	10.00	53.0	-6.00	15.0	8.5	72

For External Distribution

The 'eye' logo and SOLA are trademarks of Carl Zeiss Vision Inc.
CR-39 is a registered trademark of PPG Industries Inc.

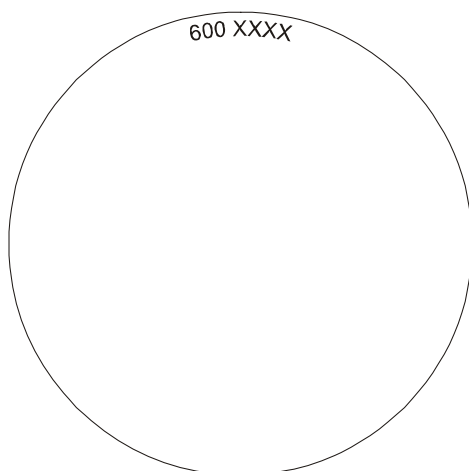
Surfacing: Recommended centre & edge thicknesses:

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-12.00 to -2.00	2.0	1.5	
-1.75 to +2.00	2.0 or *	2.0 or *	1.0 *
+2.25 to +4.00			1.0
+4.25 to +9.75			0.5

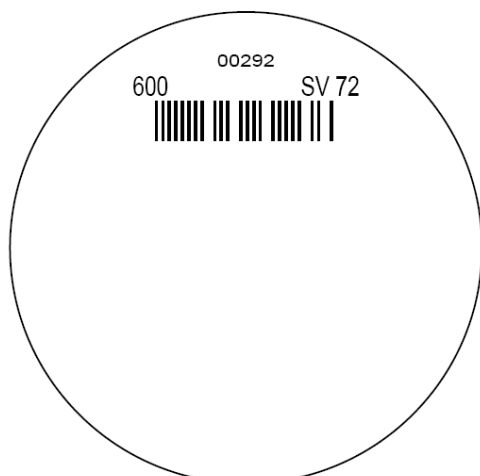
* Thicknesses are based on whichever is the limiting factor.

Product Markings:

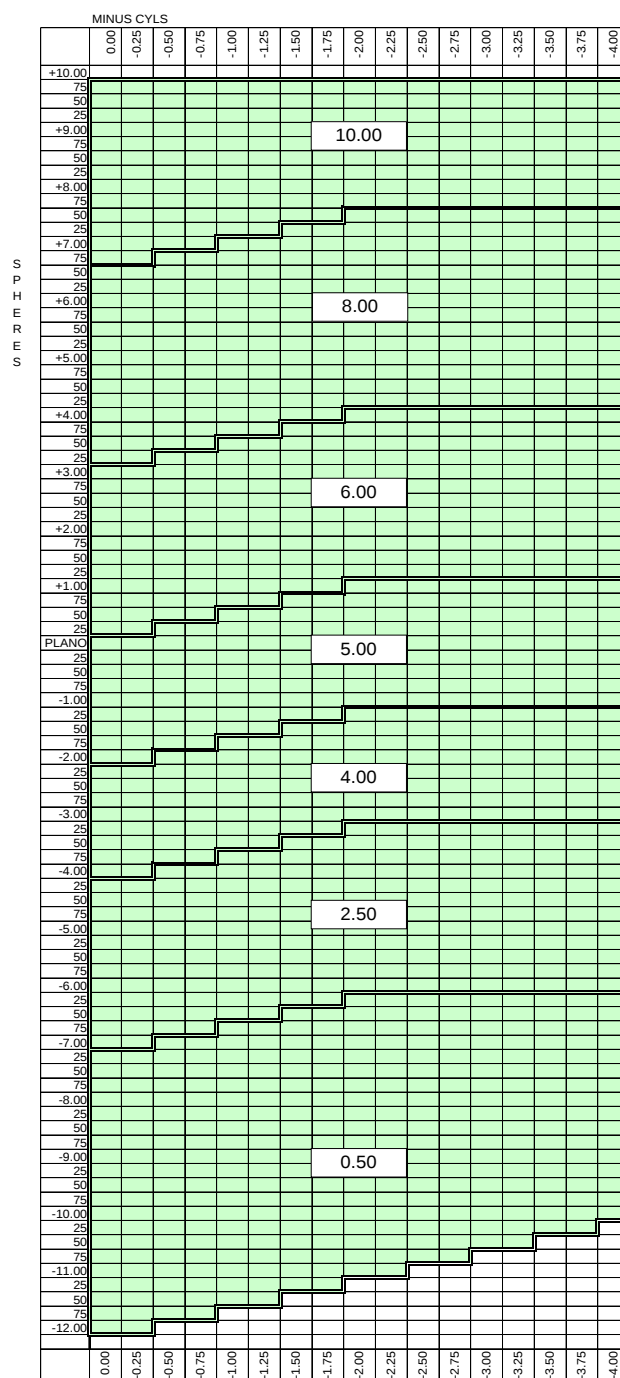
Front Surface:



Back Surface: Cast on Visible Code



Recommended Range Chart:



Substrate : **HARD RESIN**

Product Name : **76mm SPHERICAL SINGLE VISION**

Product Type : **SEMI-FINISHED BLANKS**

Specification Reference : 0101122.FS2

Date : 12 January 2012

Page : 1 of 2

Product Range:

Product:	Hard Coated	Uncoated
CAT Code:	753	018

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)
76	0.50	-12.00 to -7.25
76	2.50	-7.00 to -4.25
76	4.00	-4.00 to -2.25
76	6.00	-2.00 to +2.00
76	8.00	+2.25 to +4.50
76	10.00	+4.75 to +8.00

Material & Coating Specifications:

Type	CR-39[®]	
Refractive Index	$\eta_d = 1.499$	$\eta_e = 1.500$
Abbe Number	$v_d = 58$	$v_e = 56$
Density	1.32 g.cm ⁻³	
UV Protection (ISO)	2.0 mm Centre Thickness UVA : 91 % : UVB : 100 %	
Coating Type	Hard Coated & Uncoated	

Blank Information:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0mm)	Nominal Edge Thickness (mm)	Packaged Weight (g)
0.50	0.00	∞	-3.00	12.9	17.0	99
2.50	2.15	246.51	-3.00	15.8	17.0	111
4.00	3.68	144.02	-6.00	11.5	15.0	91
6.00	5.92	89.53	-6.00	8.9	9.0	64
8.00	8.01	66.17	-6.00	12.4	9.0	76
10.00	10.00	53.00	-6.00	16.5	8.5	90

For External Distribution

The 'eye' logo and SOLA are trademarks of Carl Zeiss Vision Inc.
CR-39 is a registered trademark of PPG Industries Inc.

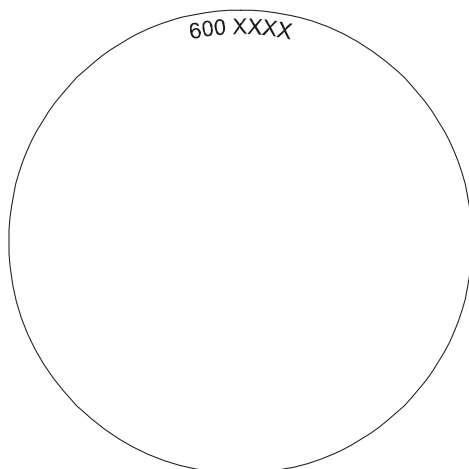
Surfacing: Recommended centre & edge thicknesses:

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-12.00 to -2.00	2.0	1.5	
-1.75 to +2.00	2.0 or *	2.0 or *	1.0 *
+2.25 to +4.00			1.0
+4.25 to +8.00			0.5

* Thicknesses are based on whichever is the limiting factor.

Product Markings:

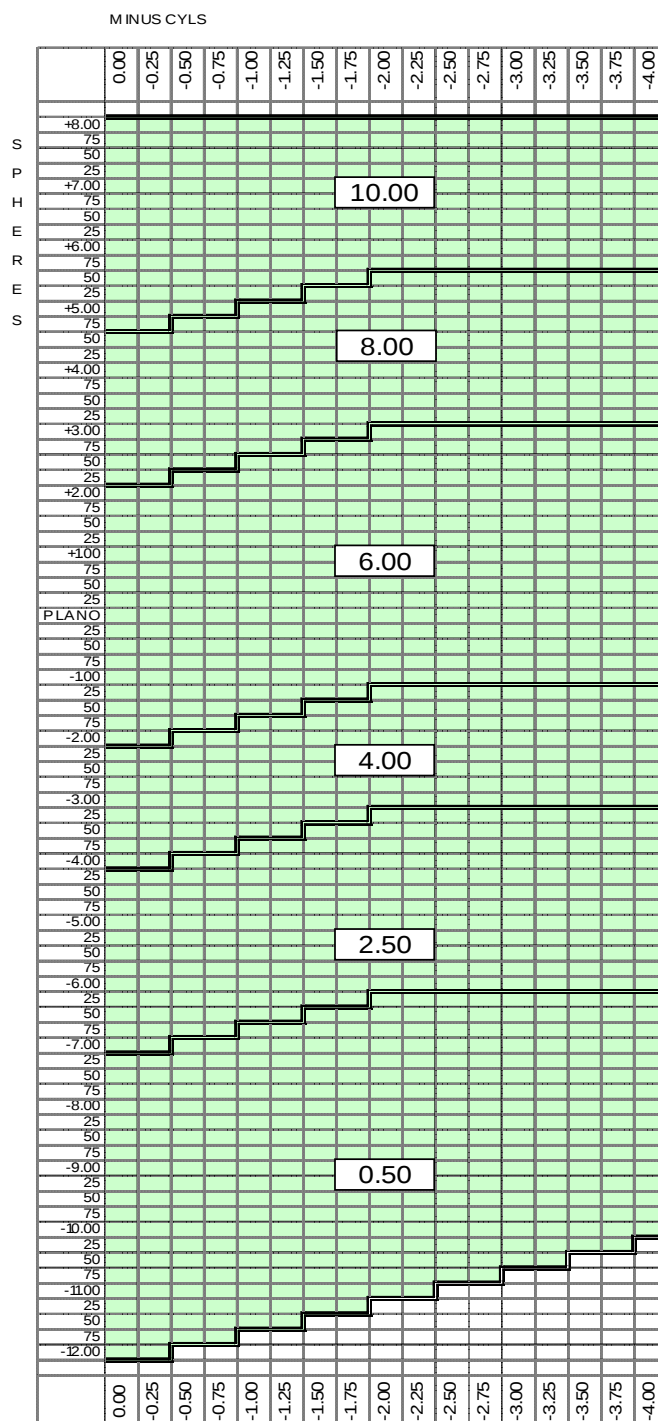
Front Surface:



Back Surface: Cast on Visible Code



Recommended Range Chart:



PRODUCT FACT SHEET



CARL ZEISS VISION

Substrate : **1.5 PhotoFusion®**
 Product Name : **SPHERICAL SINGLE VISION**
 Product Type : **SEMI-FINISHED BLANKS**
 Reference : 00310.FS1
 Date : 1 May 2012

Page : 1 of 2

Product Range :

CAT Code	Hardcoated
Grey	R76
Brown	R77

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
76	0.50	1.00 to 3.00	-9.00 to -6.00
76	2.25	1.00 to 3.00	-5.75 to -3.75
76	4.25	1.00 to 3.00	-3.50 to -1.50
76	5.25	1.00 to 3.00	-1.25 to +1.25
76	6.25	1.00 to 3.00	+1.50 to +2.25
76	8.25	1.00 to 3.00	+2.50 to +5.00

Material & Coating Specifications:

Type	1.5
Refractive Index	$n_d = 1.497$ (Helium 'd' line 587.56nm) $n_e = 1.499$ (Mercury 'e' line 546.07nm)
Abbe Number	$v_d = 61, v_e = 57$
Density	1.27 g.cm ⁻³
UV Protection (ISO)	Coated , Activated : 2.0mm Centre Thickness UVA : 100% UVB : 100%
Coating Type	Hardcoated

Blank Information :

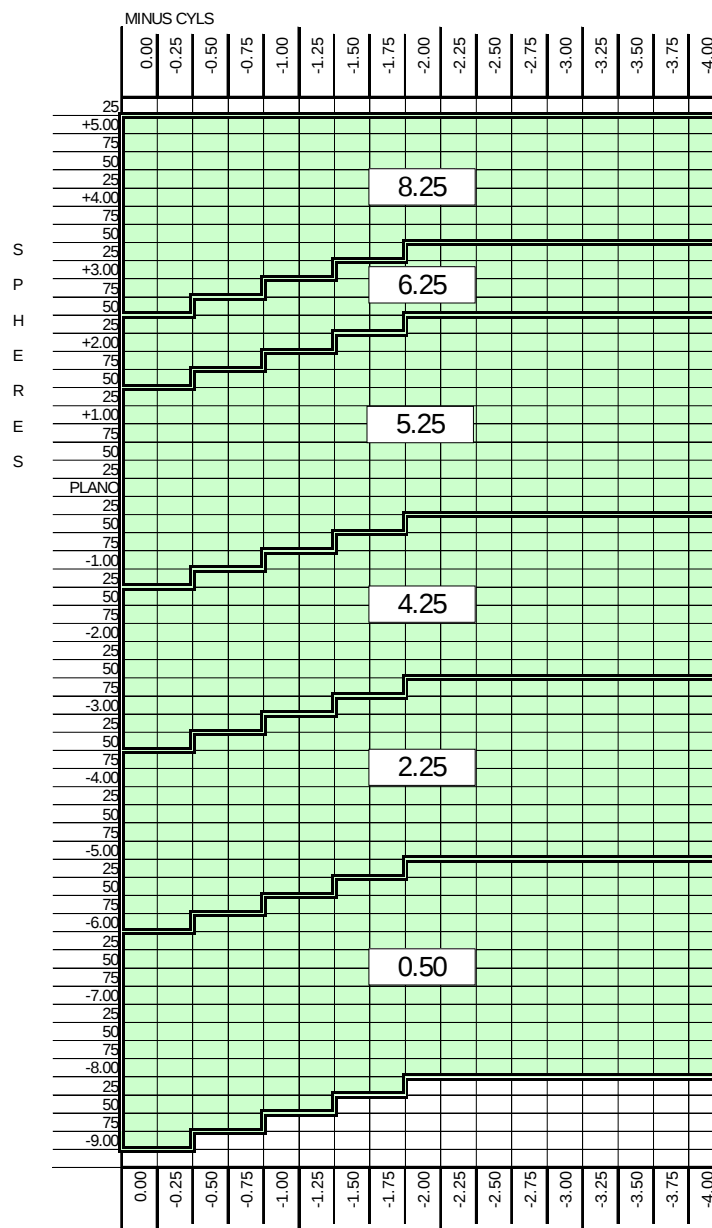
Nominal Base	True Front Curve (D)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0mm)	Nominal Edge Thickness (mm)
0.50	0.44	1205.00	-4.00	10.6	15.8
2.25	2.09	254.00	-4.00	10.6	13.6
4.25	4.30	123.00	-4.00	10.6	10.4
5.25	5.26	100.80	-6.00	8.7	10.2
6.25	6.21	85.30	-6.00	8.7	8.8
8.25	8.26	64.20	-6.00	12.3	9.0

For External Distribution

Surfacing: Recommended Centre & Edge Thicknesses

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-9.00 to -2.00	2.0	1.5	
-1.75 to +2.00	2.0 or *	2.0 or *	1.0 *
+2.25 to +4.00			1.0
+4.25 to +5.00			0.5

**Thicknesses are based on whichever is the limiting factor.*

Range Chart :



PRODUCT FACT SHEET

Substrate	:	1.5 TRANSITIONS® SIGNATURE VII			
Product Name	:	SPHERICAL SINGLE VISION			
Product type	:	SEMI-FINISHED BLANKS			
Reference	:	00342.FS2			
Date	:	18 December 2013	Page	:	1 of 2

Product Range:

Europe Region:

Product:	Brown HC	Gray HC	Brown UNC	Gray UNC
LGC:	L6385	L6384	L6386	L6387

USA:

Product:	Brown HC	Gray HC
LGC:	L6457	L6456
CAT Code:	V90	V91

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)	
72	2.25	-6.00	to -3.75
72	4.25	-3.50	to -1.50
72	5.25	-1.25	to +1.25
72	6.25	+1.50	to +2.25
72	8.25	+2.50	to +5.00

Material & Coating Specifications:

Type	CR-39®
Refractive Index	$n_d = 1.500$ $n_e = 1.502$
Abbe Number	$v_d = 59$ $v_e = 58$
Density	1.31 g.cm^{-3}
UV Protection (ISO)	Activated: 2.0mm Centre Thickness. UVA: 100 %, UVB: 100 %
Coating Type	Hard Coated & Uncoated

Blank Information:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (±1.0mm)	Nominal Edge Thickness (mm)
2.25	2.09	253.30	4.00	9.0	14.6
4.25	4.29	123.51	4.00	8.5	8.1
5.25	5.25	101.01	6.00	8.5	6.9
6.25	6.20	85.45	6.00	8.5	5.5
8.25	8.26	64.14	6.00	9.4	6.0

For External Distribution

The Zeiss logo is a trademark of Carl Zeiss Vision Inc.
CR-39 is a registered trademark of PPG Industries Inc.
Transitions is a registered trademark of Transitions Optical Inc.



CARL ZEISS VISION

PRODUCT FACT SHEET

Substrate	:	1.5 CR607®		
Product Name	:	TRANSITIONS® VANTAGE SINGLE VISION		
Product type	:	SEMI-FINISHED BLANKS		
Reference	:	00311.FS1		
Date	:	28 May 2012	Page	: 1 of 3

Product Range:

Product:	Hard Coated
CAT Code:	R85

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)
76 mm	0.50	-9.00 to -6.00
76 mm	2.25	-5.75 to -3.75
76 mm	4.25	-3.50 to -1.50
76 mm	5.25	-1.25 to +1.25
76 mm	6.25	+1.50 to +2.25
76 mm	8.25	+2.50 to +5.00
76 mm	10.00	+5.25 to +7.00

Material & Coating Specifications:

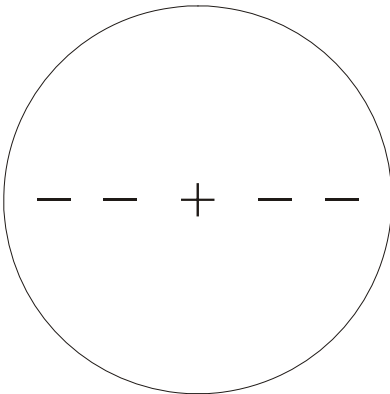
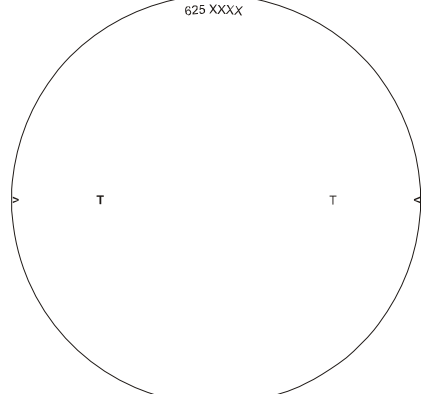
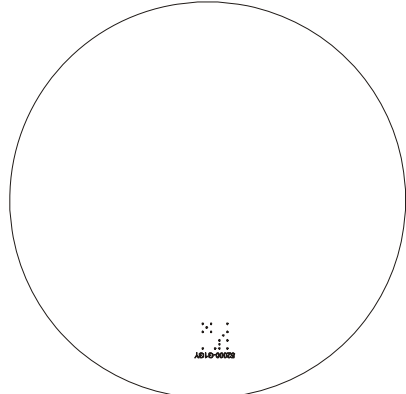
Type	CR-607®
Refractive Index	$n_d = 1.497$ (Helium 'd' line 587.56nm) $n_e = 1.499$ (Mercury 'e' line 546.07nm)
Abbe Number	$V_d = 61$ $V_e = 57$
Density	1.27 g.cm^{-3}
UV Protection (ISO)	Coated, Activated: 2.0mm Centre Thickness: UVA : 100% UVB : 100%
Coating Type	Hard Coated

For External Distribution

The Zeiss logo is a trademark of Carl Zeiss Vision Inc.
CR-607 is a registered trademark of PPG Industries Inc.
Transitions is a registered trademark of Transitions Inc.

Blank Information:

Diameter (mm)	Nominal Base (D)	True Front Curve in 1.530 (D)	Radius (mm)	Nominal Back Curve (D)	Centre Thickness (mm) (± 1.0)	Nominal Edge Thickness (mm)	Substrate Source / Cat Code
76	0.50	0.43	1232.56	-4.00	10.6	15.8	Generic / 403
76	2.25	2.10	252.38	-4.00	10.6	13.6	Generic / 403
76	3.50	3.74	141.71	-6.00	10.7	14.5	MXMA / T84
76	4.25	4.30	123.26	-4.00	10.5	10.4	Generic / 403
76	5.25	5.26	100.75	-6.00	8.5	10.3	Generic / 403
76	5.26 *	5.32	99.62	-4.00	13.0	11.0	MXMA / T84
76	6.25	6.21	85.33	-6.00	8.5	8.9	Generic / 403
76	6.50	6.94	76.37	-4.00	11.6	7.0	MXMA / T84
76	8.25	8.24	64.32	-6.00	12.0	8.3	Generic / 403
76	10.00	9.97	53.16	-6.00	16.0	8.5	MXMA / T84

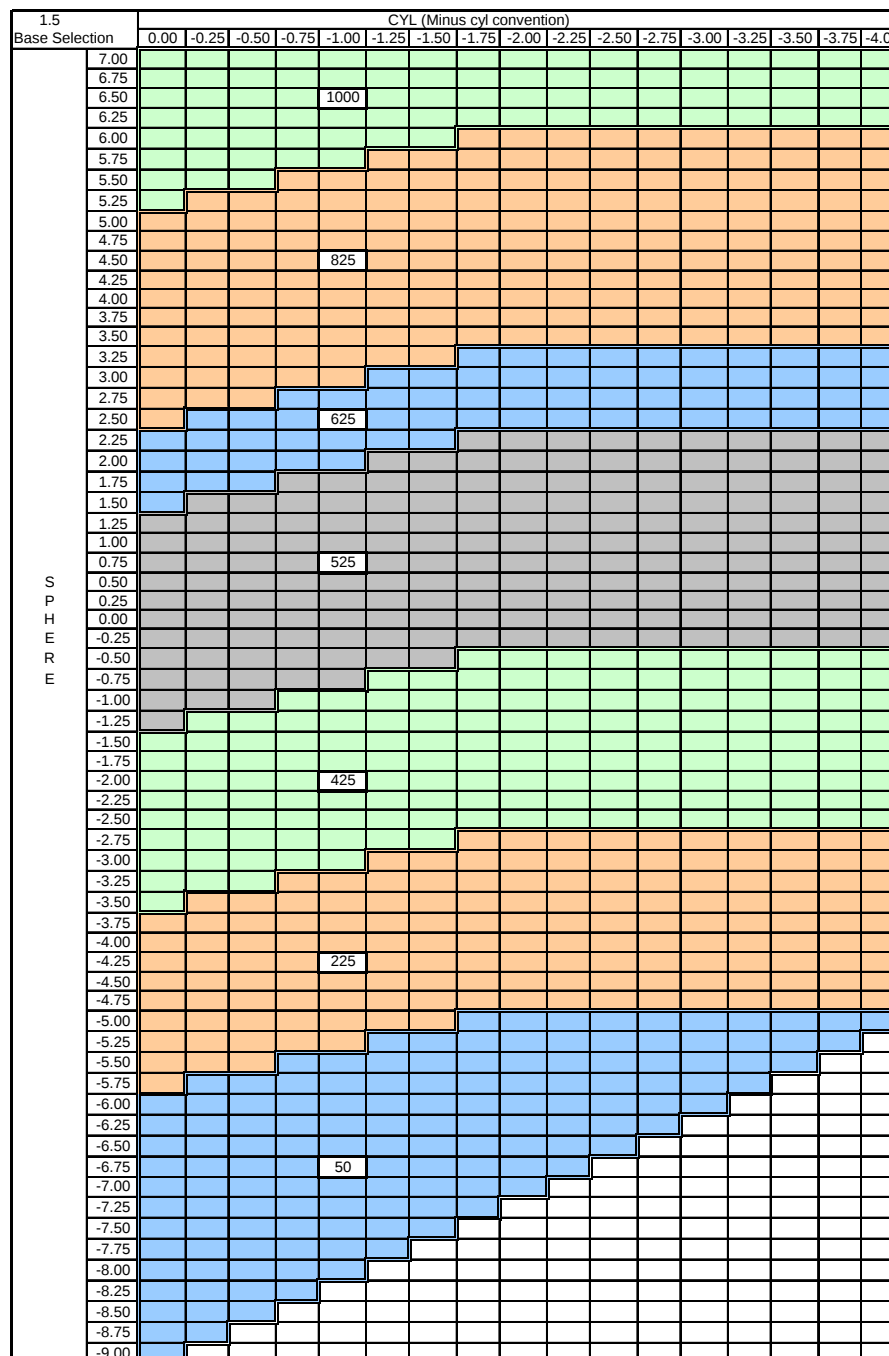
Front Surface Ink Markings	Front Surface Semi-visible Markings	Back surface markings
		
Axis alignment ink marking indicating horizontal polarised axis orientation (Yellow)	- Cast on semi visible Code identifying material, base curve and unique ID. Due to the thickness of the coating treatment this code may become obscure - Transitions applied semi-visible "T" symbols positioned 20mm from centre and "> ,<" markings at the edge of the blank indicating horizontal polarised axis orientation	Semi-visible Transitions applied 2d matrix code.

Surfacing:

Recommended centre & edge thicknesses for all regions:

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-9.00 to -2.00	2.0	1.5	
-1.75 to +2.00	2.0 or *	2.0 or *	1.0 *
+2.25 to +4.00			1.0
+4.25 to +7.00			0.5

*Thicknesses are based on whichever is the limiting factor

Recommended Range Chart:

Substrate : **1.523 GLASS (WHITE & PHOTOGRAY EXTRA)**

Product Name : **71 mm SPHERICAL SINGLE VISION**

Product Type : **SEMI-FINISHED BLANKS** Cat Codes: **White-059 PGX-058**

Reference : **F0102082_1**

Date : **23 Nov 2001** Page : **1 of 2**

Product Range : Two (2) Materials : White, PhotoGray Extra

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)		
71	0.50	-10.00	to	-7.25
71	2.00	-7.00	to	-4.25
71	4.25	-4.00	to	-2.25
71	6.25	-2.00	to	+2.00
71	8.25	+2.25	to	+5.50
71	10.25	+5.75	to	+8.00

Material Specifications:

Type	White Glass	PhotoGray Extra Glass
Refractive Index	$\eta_d = 1.523$ $\eta_e = 1.525$	$\eta_d = 1.523$ $\eta_e = 1.525$
Abbe Number	$v_d = 59$ $v_e = 58$	$v_d = 57$ $v_e = 57$
Density	2.54 g.cm ⁻³	2.41 g.cm ⁻³
UV Protection (ISO) (1.5 mm Centre Thickness)	UVA : 20 % UVB : 79 %	UVA : 97 % (Activated) UVB : 100 % (Activated)

Blank Information :

Base	Radius (mm)	True Front Curve (D) (1.530)	True Front Curve (D) (1.523)	Central Curve Sag @ 50mm (mm)	Nominal Back Curve (D) (1.530)	Nominal Edge Thickness (mm)	Centre Thickness (±1.0mm)
0.50	1060	0.50	0.49	0.30	-8.00	14.4	4.9
2.00	265	2.00	1.97	1.18	-8.00	14.4	7.9
4.25	128	4.15	4.10	2.47	-8.00	9.4	5.6
6.25	85.5	6.20	6.12	3.74	-6.00	4.8	6.6
8.25	64.9	8.17	8.06	5.01	-6.00	3.7	8.4
10.25	52.5	10.09	9.96	6.33	-6.00	5.3	12.2

For External Distribution

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Surfacing :**Recommended Centre & Edge Thicknesses**

Power Range (D)			Minimum Centre Thickness	Minimum Edge Thickness
-10.00	to	0.00	1.5 mm	
+0.25	to	+8.00		1.0 mm

Product Markings :Front Surface : Semi-Visible Markings

None

Front Surface : Ink Markings

None

Back Surface : Coding

None

Range Chart :