



Bifocal - Fact Sheets

Table of Contents

1.59 Polycarbonate – semi-finished

<i>1.59 Polycarbonate Spherical Flat Top 28</i>	1 – 2
---	--------------

1.50 Hard Resin PhotoFusion – semi-finished

<i>1.50 Hard Resin PhotoFusion Flat Top 28</i>	3 – 4
--	--------------

<i>1.50 Hard Resin PhotoFusion Flat Top 35</i>	5 – 6
--	--------------

1.50 Hard Resin Transitions – semi-finished

<i>1.50 Hard Resin Transitions Flat Top 28</i>	7 – 8
--	--------------

<i>1.50 Hard Resin Transitions Flat Top 35</i>	9 – 10
--	---------------

1.50 Hard Resin – semi-finished

<i>1.50 Hard Resin 70mm Flat Top 28</i>	11 – 13
---	----------------

<i>1.50 Hard Resin 72mm Flat Top 28</i>	14 – 16
---	----------------

<i>1.50 Hard Resin 76mm Flat Top 28</i>	17 – 18
---	----------------

<i>1.50 Hard Resin 72mm Flat Top 35</i>	19 – 20
---	----------------

<i>1.50 Hard Resin 76mm Flat Top 35</i>	21 – 22
---	----------------

<i>1.50 Hard Resin 76mm EZ2Vue 28 Blended Round Seg</i>	23 – 24
---	----------------

<i>1.50 Hard Resin 76mm Round Seg 24</i>	25 – 26
--	----------------

<i>1.50 Hard Resin 68mm & 78mm E Line</i>	27 – 28
---	----------------

1.50 Hard Resin – finished

<i>1.50 Hard Resin 68mm Flat Top 28</i>	29
---	-----------

1.50 Glass – semi-finished

<i>1.50 White & PhotoGray Extra Glass 66mm Flat Top 28</i>	30 – 31
--	----------------

<i>1.50 White & PhotoGray Extra Glass 71mm Flat Top 28</i>	32 – 33
--	----------------



Trifocal - Fact Sheets

Table of Contents

1.50 Hard Resin PhotoFusion – semi-finished

1.50 Hard Resin PhotoFusion Flat Top 7x28 **34 – 35**

1.50 Hard Resin Transitions – semi-finished

1.50 Hard Resin Transitions Flat Top 7x28 **36 – 37**

1.50 Hard Resin – semi-finished

1.50 Hard Resin 72mm Flat Top 7x28 **38 – 39**

1.50 Hard Resin 72mm Flat Top 8x35 **40 – 41**

1.50 Hard Resin 68mm E-Line **42 – 43**

1.50 Glass – semi-finished

1.50 White & PhotoGray Extra Glass 71mm Flat Top 7x28 **44 – 45**

Substrate : **POLYCARBONATE**

Product Name : **FLAT TOP BIFOCAL**

Product Type : **SEMI-FINISHED BLANKS**

Reference Number : F0102275_1

Date : 24 Feb 2005

Page : 1 of 2

Design : Spherical. Seg line positioned 6 mm below and 6 mm nasally from geometric centre.

Product Range :

Nominal Diameter (mm)	Front surface diameter (excluding lentic)	Nominal Seg Size (mm)	Nominal Base Curve (D)	Add Power Range (D)		Recommended Rx Range (D)	
80	74	28	0.50	1.00	to 3.00	-13.00	to -10.50
80	74	28	2.25	1.00	to 3.00	-10.25	to -5.50
80	74	28	4.50	1.00	to 3.00	-5.25	to -2.00
80	74	28	6.25	1.00	to 3.00	-1.75	to +2.00
80	74	28	8.00	1.00	to 3.00	+2.25	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 Protection	UVA :100%, UVB 100%: (from 380nm to 280nm as per ISO 8980-3-2003, ANSI Z80-1-1999)
Coating	Perma-Gard TM

Blank Information :

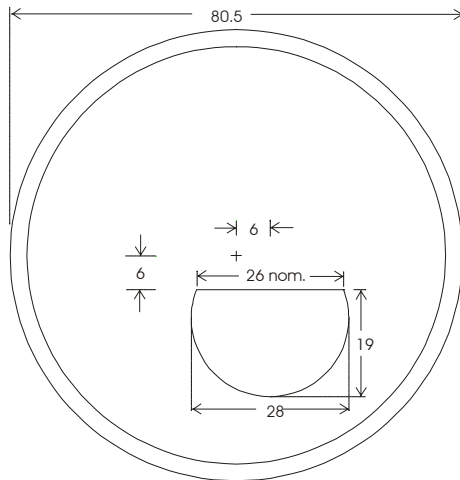
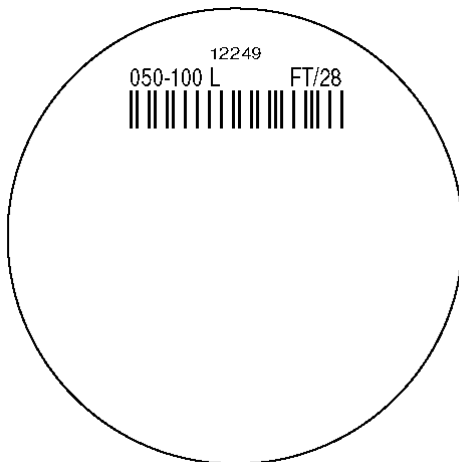
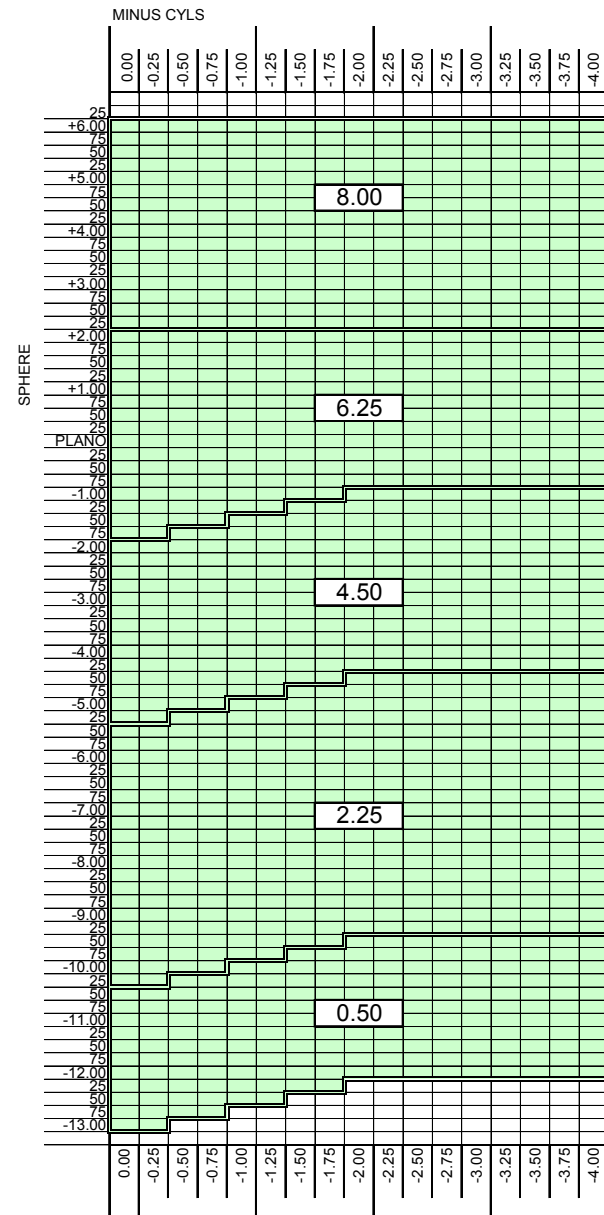
Nominal Base	Radii (mm)	True Front Curve (D) (1.530)	True Front Curve (D) (1.586)	Central Curve Sag @ 50mm (mm)	Nominal Back Curve (D)	Centre Thickness (mm) ⁽¹⁾	Nominal Edge Thickness (mm)	Packaged Weight (g)
0.50	913.79	0.58	0.64	0.34	-5.75	10.5 ± 1.0	18.0	87
2.25	233.48	2.27	2.51	1.34	-5.75	9.5 ± 1.0	15.5	75
4.50	117.78	4.50	4.98	2.68	-5.75	8.5 ± 1.0	10.5	62
6.25	85.21	6.22	6.88	3.75	-8.00	7.3 ± 1.0	11	66
8.00	66.42	7.98	8.82	4.89	-8.00	10.0 ± 1.0	10	72

For External Distribution

Surfacing :**Recommended Centre & Edge Thicknesses**

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-13.00 to -2.00	1.5	
-1.75 to +2.00	1.5 or *	1.0 *
+2.25 to +6.00		0.5

*Thickness based on whichever is the limiting factor.

Product Markings :**Front Surface : Geometry****Back Surface : Coding****Range Chart :**



PRODUCT FACT SHEET

Substrate : **1.5 PhotoFusion®**

Product Name : **76 x 28 mm FLAT TOP BIFOCAL**

Product Type : **SEMI-FINISHED BLANKS**

Reference : 00314.FS1

Date : 1 May 2012

Page : 1 of 2

Product Range :

CAT Code	Hardcoated
Grey	R78
Brown	R79

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 & Uncoated

Blank Information :

Nominal Base	True Front Curve (D)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0mm)	Nominal Edge Thickness (mm)
0.50	0.40	1325.00	-4.00	10.6	15.8
2.25	2.09	253.59	-4.00	10.6	13.6
4.25	4.30	123.26	-4.00	10.6	10.4
5.25	5.26	100.76	-6.00	8.7	10.2
6.25	6.21	85.35	-6.00	8.7	8.8
8.25	8.26	64.16	-6.00	12.3	9.0

For External Distribution

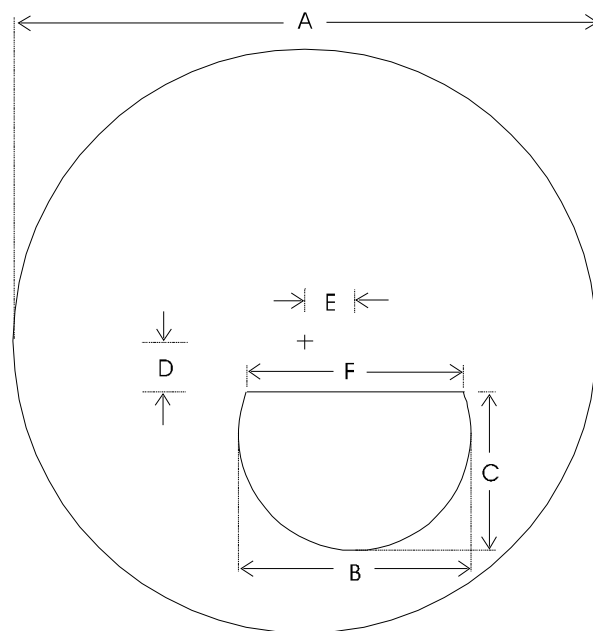
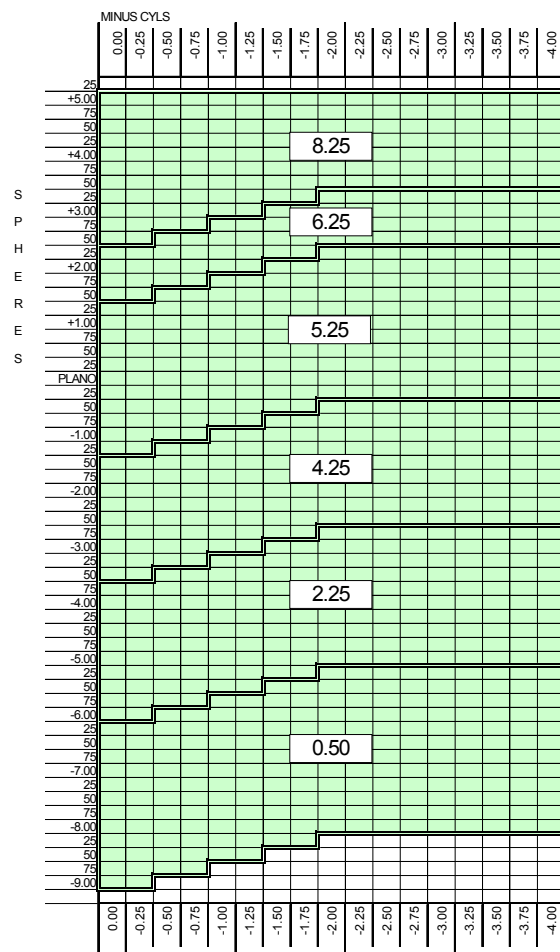
Surfacing: Recommended Centre & Edge Thicknesses

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.*

Product Geometry :

A	Lens Diameter	76mm
B	Segment diameter	28.0mm
C	Segment Depth	19.0mm
D	Distance Below Datum	6.0mm
E	Inset From Datum	6.0mm
F	Segment Line Length	26.0mm

**Range Chart :**



PRODUCT FACT SHEET

Substrate : **1.5 PhotoFusion®**

Product Name : **76 x 35 mm FLAT TOP BIFOCAL**

Product Type : **SEMI-FINISHED BLANKS**

Reference : 00315.FS1

Date : 1 May 2012

Page : 1 of 2

Product Range :

CAT Code	Hardcoated
Grey	F83

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
74	4.00	1.00 to 3.00	-4.00 to -2.25
76	6.00	1.00 to 3.00	-2.00 to +2.00
76	8.00	1.00 to 3.00	+2.25 to +6.00

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 & Uncoated

Blank Information :

Nominal Base	True Front Curve (D)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0mm)	Nominal Edge Thickness (mm)
4.00	3.68	144.02	-6.00	11.3	14.6
6.00	5.94	89.23	-6.00	8.9	9.0
8.00	8.01	66.17	-6.00	12.5	9.0

For External Distribution

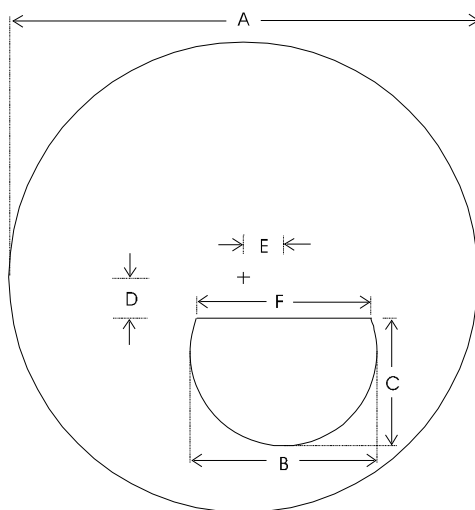
Surfacing: Recommended Centre & Edge Thicknesses

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-4.00 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 +6.00			0.5

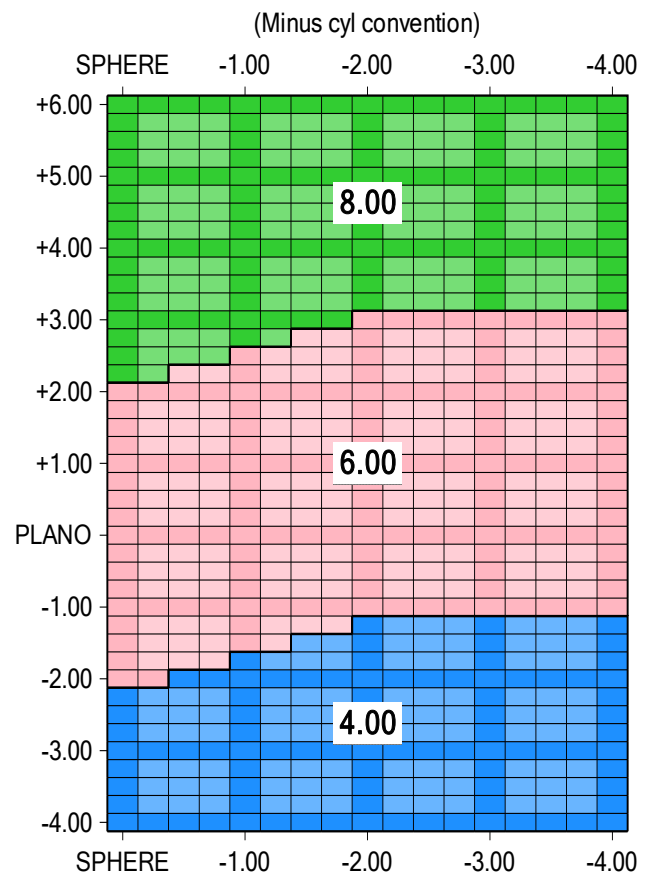
**Thicknesses are based on whichever is the limiting factor.*

Product Geometry :

A	Lens Diameter	76mm
B	Segment diameter	35.0mm
C	Segment Depth	22.5mm
D	Distance Below Datum	6.0mm
E	Inset From Datum	6.0mm
F	Segment Line Length	33.5mm



Back surface markings

**Range Chart :**



PRODUCT FACT SHEET

Substrate	:	1.5 TRANSITIONS® SIGNATURE VII			
Product Name	:	76 x 28 mm FLAT TOP BIFOCAL			
Product type	:	SEMI-FINISHED BLANKS			
Reference	:	00344.FS2			
Date	:	13 December 2013	Page	:	1 of 2

Product Range:

Product:	Brown HC	Gray HC	Brown UNC	Gray UNC
Europe LGC:	L6380	L6381	L6382	L6383
USA LGC:	L6454	L6455	n/a	n/a
USA CAT Code:	V92	V93	n/a	n/a

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	CR-607®	
Refractive Index	$n_d = 1.497$	$n_e = 1.499$
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 & Uncoated	

Blank Information: Curves in 1.530 RI

Nominal Base	True Front Curve (D)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (±1.0mm)	Nominal Edge Thickness (mm)
0.50	0.40	1325.00	-4.00	10.6	15.8
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

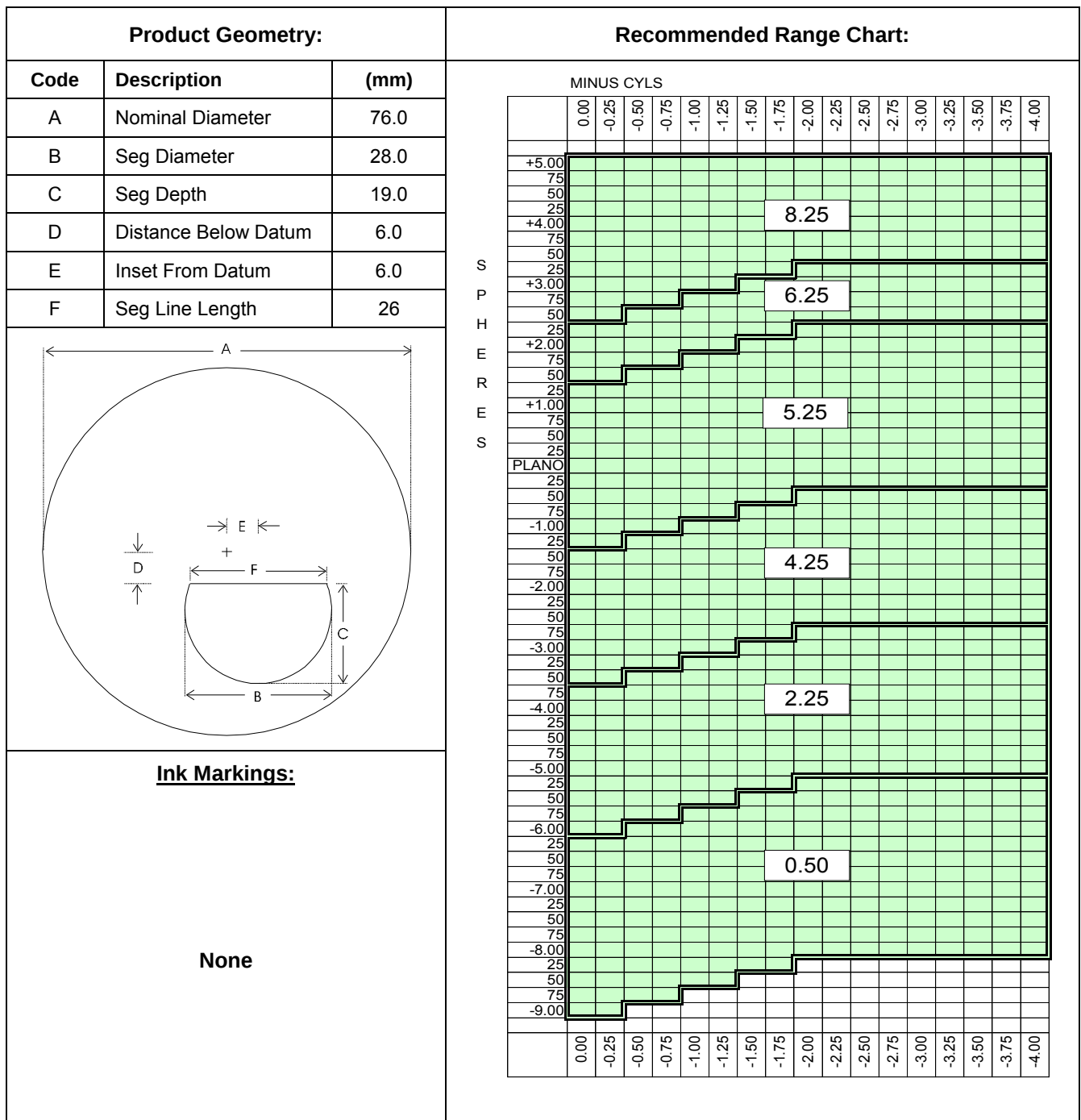
For External Distribution

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

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)
-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





PRODUCT FACT SHEET

Substrate	:	1.5 TRANSITIONS® SIGNATURE VII		
Product Name	:	76 x 35 mm FLAT TOP BIFOCAL		
Product type	:	SEMI-FINISHED BLANKS		
Reference	:	00398.FS1		
Date	:	18 December 2013	Page	: 1 of 2

Product Range:

Product:	Gray HC
LGC:	L6425
CAT Code:	V94

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)		Recommended Rx Range (D)	
74	4.00	1.00	to 3.00	-4.00	to -2.25
76	6.00	1.00	to 3.00	-2.00	to +2.00
76	8.00	1.00	to 3.00	+2.25	to +6.00

Material & Coating Specifications:

Type	CR-607®	
Refractive Index	$n_d = 1.497$	$n_e = 1.499$
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	

Blank Information: Curves in 1.530 RI

Nominal Base	True Front Curve (D)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0mm)	Nominal Edge Thickness (mm)
4.00	3.68	144	-6.00	11.3	14.6
6.00	5.94	89.2	-6.00	8.9	9.0
8.00	8.01	66.2	-6.00	12.5	9.0

Surfacing:

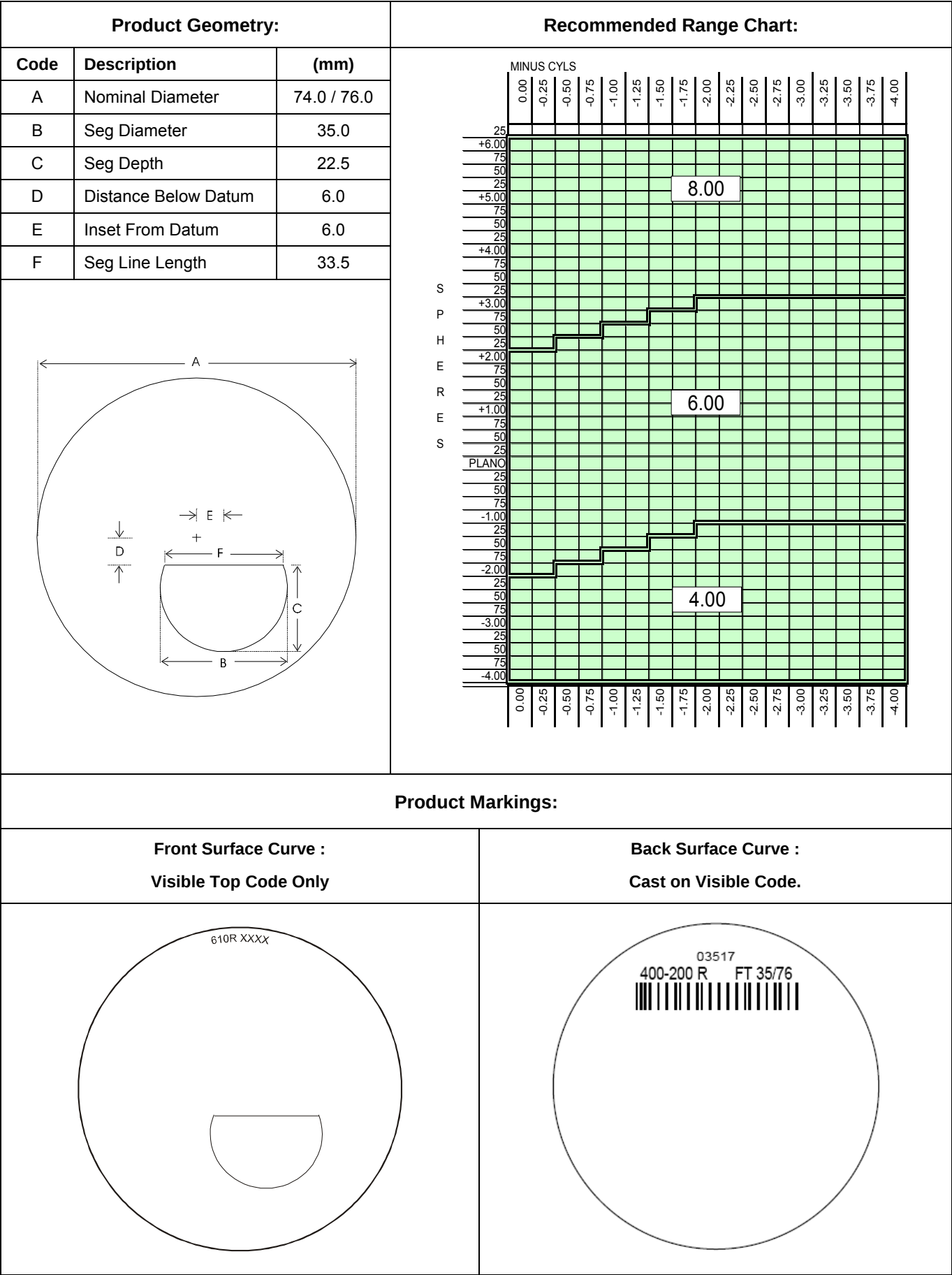
Recommended centre & edge thicknesses for all regions:

Power Range (D)	USA Market Minimum Centre Thickness	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-4.00 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 +6.00			0.5

* Thicknesses are based on whichever is the limiting factor

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 Optical Inc.





Product Fact Sheet

Substrate : **HARD RESIN**

Product Name : **70 x 28 mm FLAT TOP BIFOCAL**

Product Type : **SEMI-FINISHED BLANKS**

Reference : SD1-4-1.FS2

Date : 27 February 2012

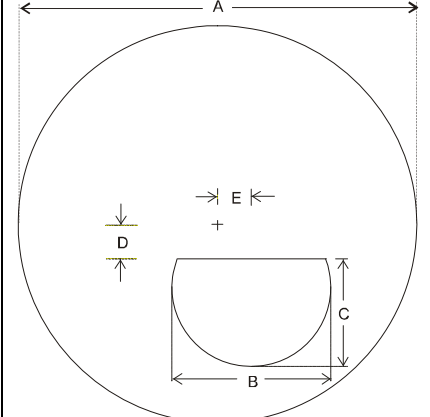
Page : 1 of 2

Product Range:

Product:	70mm Hard Coated	70mm Uncoated	75mm Hard Coated	75mm Uncoated
CAT Code:	949	942	n/a	n/a

Nominal Diameter (mm)	Nominal Seg Size (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
70 only	28	2.50	1.00 to 3.00	-9.00 to -5.25
70 & 75	28	4.50	1.00 to 3.00	-5.00 to -0.75
70 & 75	28	6.50	1.00 to 3.00	-0.50 to +2.00
70 & 75	28	8.50	1.00 to 3.00	+2.25 to +5.00

Front Surface Geometry:

	Code	Description	Dimension (mm)
	A	Nominal Diameter	70 & 75
	B	Seg Diameter	28.0
	C	Seg Depth	19.0
	D	Distance Below Datum	5.5
	E	Inset From Datum	6.0

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.

Blank Information:

70mm Product

Nominal Diameter (mm)	Nominal Base	True Front Curve (D) (1.530)	TFC Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0mm)	Nominal Edge Thickness (mm)
70	2.50	2.06	257.28	-6.00	11.2	16.0
70	4.50	4.24	125.00	-6.00	8.4	10.6
70	6.50	6.36	83.33	-6.00	8.5	8.0
70	8.50	8.40	63.10	-6.00	8.9	5.5

~~75mm Product~~

Nominal Diameter (mm)	Nominal Base	True Front Curve (D) (1.530)	TFC Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0mm)	Nominal Edge Thickness (mm)
75	4.50	4.24	125.00	-6.00	9.8	12.5
75	6.50	6.36	83.33	-6.00	8.8	8.5
75	8.50	8.40	63.10	-6.00	11.6	8.5

Material & Coating Specifications:

Type	CR39 [®]	
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	

Surfacing:

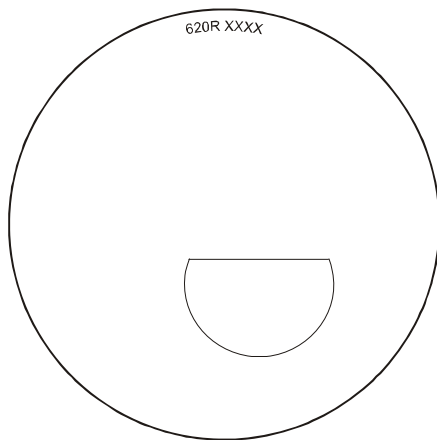
Recommended Centre & Edge Thicknesses

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			

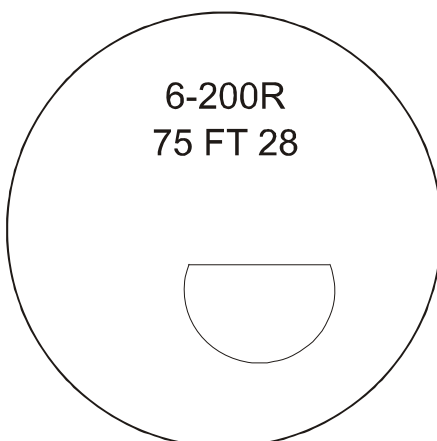
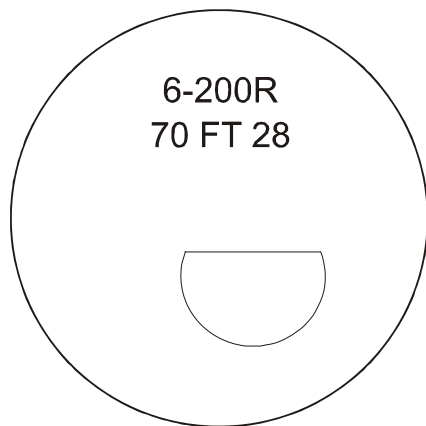
* Thicknesses are based on whichever is the limiting factor.

Product Markings:

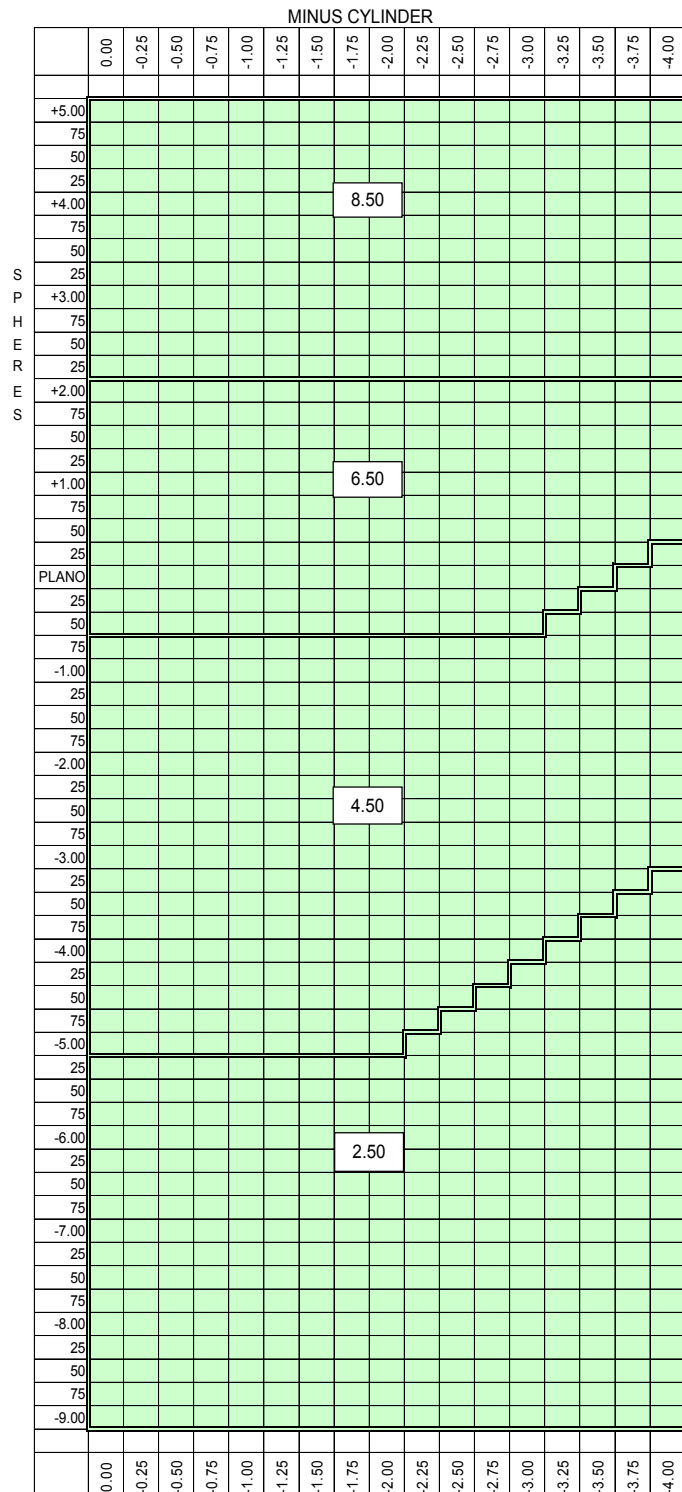
Front Surface: Top Code Only



Back Surface: Coding



Recommended Range Chart:





PRODUCT FACT SHEET

Substrate	:	HARD RESIN		
Product Name	:	72 X 28mm FLAT TOP BIFOCAL		
Product type	:	SEMI-FINISHED BLANKS		
Reference	:	5110102.FS3		
Date	:	31 May 2012	Page	: 1 of 3

Product Range:

Product:	Uncoated 70mm	Uncoated 72mm	Hard Coated 72mm
CAT Code:	n/a	206	510

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
72	0.50	0.75 to 3.50 & 4.00	-12.00 to -7.25
72	2.50	0.75 to 3.50 & 4.00	-7.00 to -4.25
72	4.00	0.75 to 3.50 & 4.00	-4.00 to -2.25
70	5.00	0.75 to 3.50 & 4.00	-2.00 to -0.25
72	6.00	0.75 to 3.50 & 4.00	-2.00 to +2.00
72	8.00	0.75 to 3.50 & 4.00	+2.25 to +4.50
72	10.00	0.75 to 3.50 & 4.00	+4.75 to +8.00

Material & Coating Specifications:

Type	CR-39®	
Refractive Index	n _d = 1.499	n _e = 1.500
Abbe Number	v _d = 58	v _e = 56
Density	1.32 g.cm ⁻³	
UV Protection (ISO)	UVA : 91 %, UVB : 100 % 2.0 mm Centre Thickness	
Coating Type	Hard Coated & Uncoated	

Blank Information:

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	-3.00	12.8	16.0
2.50	2.15	246.51	-6.00	11.0	16.0
4.00	3.68	144.02	-6.00	9.9	13.0
5.00	4.77	111.10	-6.00	10.7	12.3
6.00	5.92	89.53	-6.00	7.9	8.0
8.00	8.01	66.17	-6.00	11.5	8.5
10.00	10.00	53.00	-6.00	15.0	8.5

For External Distribution

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

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)
-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

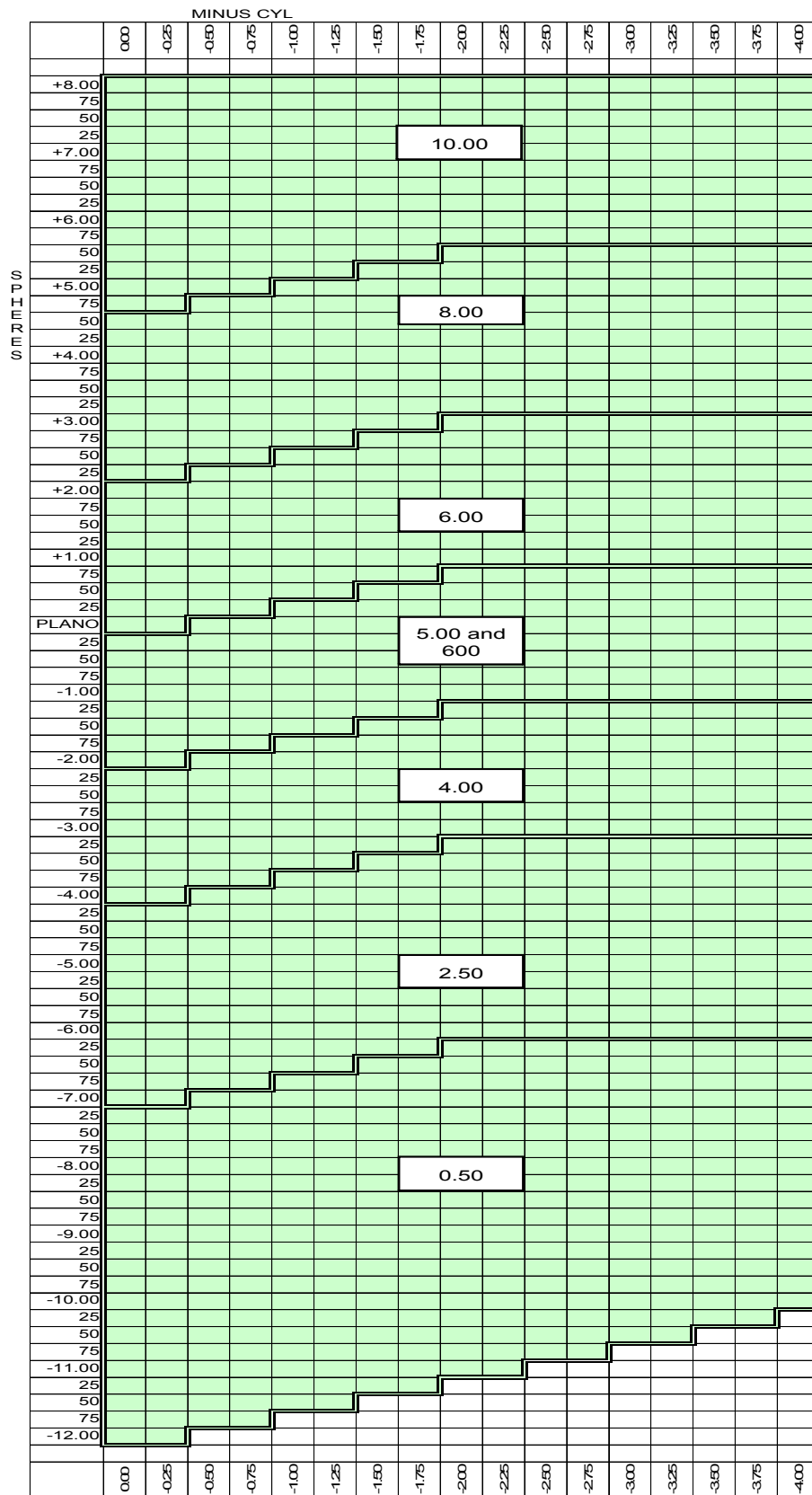
Product Geometry:

	Code	Description	Dimension (mm)
	A	Nominal Diameter	70 & 72
	B	Seg Diameter	28.0
	C	Seg Depth	19.0
	D	Distance Below Datum	6.0
	E	Inset From Datum	7.0
	F *	Seg Line Length	26.0
* Seg dimensions vary slightly as a function of add power. Nominal value only shown.			

Product Markings:

Front Surface: Top Code Only	Ink Markings:	Back Surface: Coding
	None	

Recommended Range Chart:



Note the 5.00 Base is only used for Europe

Substrate	:	HARD RESIN	
Product Name	:	76 x 28 mm FLAT TOP BIFOCAL	
Product Type	:	SEMI-FINISHED BLANKS	Cat Codes: HC-766 Unc-128
Specification Reference	:	F0101106_1	
Date	:	14 December 2007	Page : 1 of 2

Design: Spherical. Seg line positioned 6 mm below and 6 mm nasally from Geometric Centre.

Product Range:

Nominal Diameter (mm)	Nominal Seg Size (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
76	25	2.50	1.00 to 3.00	-7.00 to -4.25
76	25	4.00	0.75 to 3.50	-4.00 to -2.25
76	25	5.00	1.00 to 3.00	-2.00 to 0.00
76	25	6.00	0.75 to 3.50	+0.25 to +2.00
76	25	8.00	0.75 to 3.50	+2.25 to +4.50
76	25	10.00	1.00 to 3.00	+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)	1.8 mm Centre Thickness UVA : 91 % : UVB : 100 %	
Coating Type	Perma-Gard [™] (& Uncoated)	

Blank Information:

Nominal Base	Radii (mm)	True Front Curve (D) (1.530)	True Front Curve (D) (1.499)	Central Curve Sag @ 50mm (mm)	Nominal Back Curve (D)	Centre Thickness (mm)	Nominal Edge Thickness (mm)	Packaged Weight (g)
2.50	246.51	2.15	2.02	1.27	-3.00	15.8 ± 1.0	17.0	111
4.00	144.02	3.68	3.47	2.19	-6.00	11.5 ± 1.0	15.0	91
5.00	111.11	4.77	4.49	2.85	-6.00	12.8 ± 1.0	15.0	94
6.00	89.53	5.92	5.58	3.56	-6.00	8.9 ± 1.0	9.0	64
8.00	66.17	8.01	7.54	4.91	-6.00	12.4 ± 1.0	9.0	76
10.00	53.00	10.00	9.42	6.27	-6.00	16.5 ± 1.0	8.5	90

For External Distribution

Surfacing:

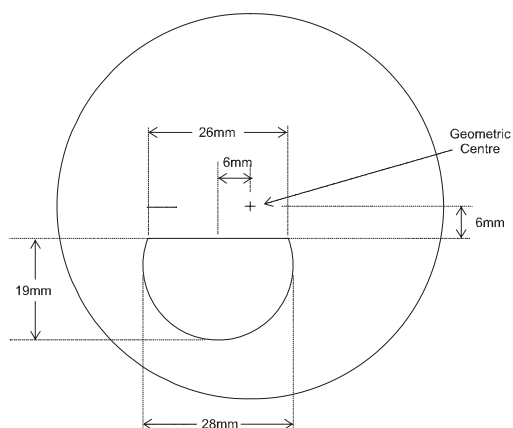
Recommended Centre & Edge Thicknesses

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-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 +8.00			0.5

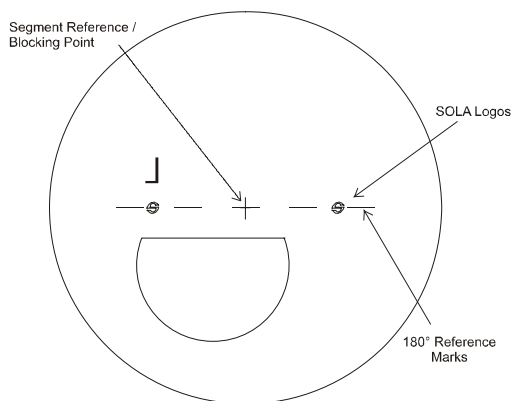
Thicknesses are based on whichever is the limiting factor.

Product Markings:

Front Surface: Geometry



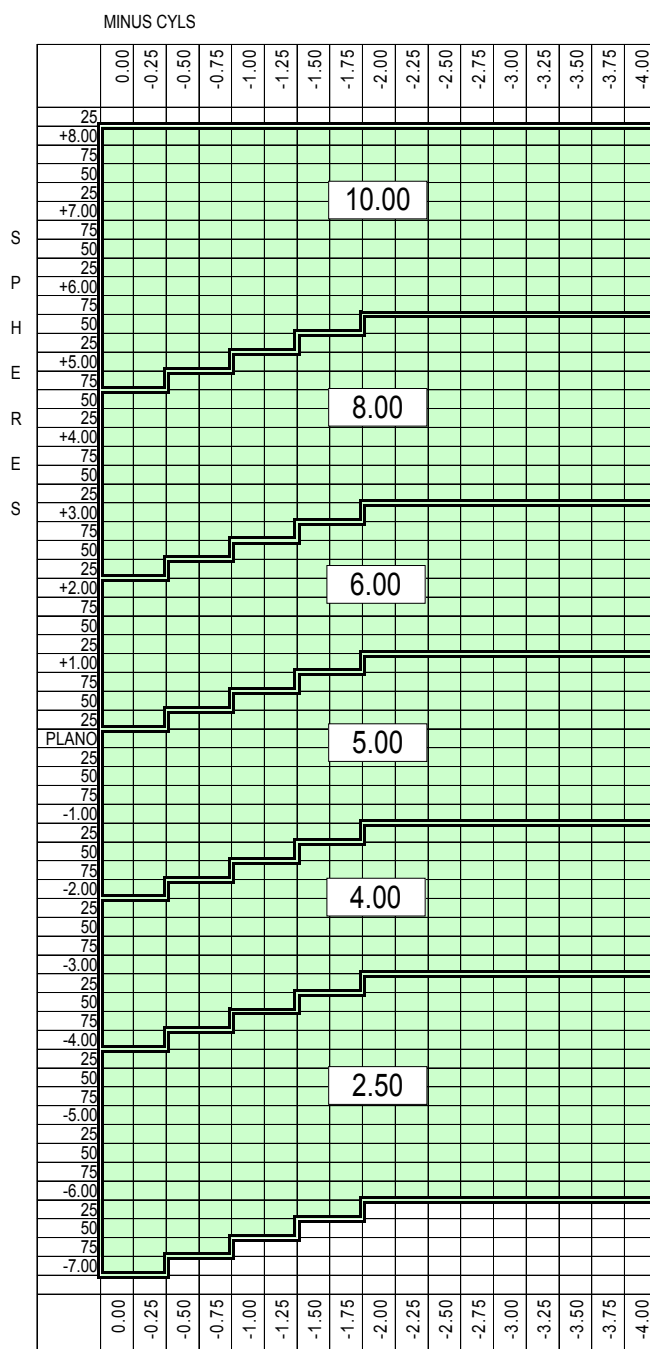
Front Surface: Ink Markings



Back Surface: Coding



Recommended Range Chart:



Substrate	:	HARD RESIN	
Product Name	:	72 x 35 mm FLAT TOP BIFOCAL	
Product Type	:	SEMI-FINISHED BLANKS	Cat Codes: HC-515 Unc-221
Specification Reference	:	F00062_1	
Date	:	20 November 2007	Page : 1 of 2

Design: Spherical. Seg line positioned 6 mm below and 7 mm nasally from Geometric Centre.

Product Range:

Nominal Diameter (mm)	Nominal Seg Size (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
72	35	0.50	0.75 to 3.00	-12.00 to -7.25
72	35	2.50	0.75 to 3.00	-7.00 to -4.25
72	35	4.00	0.75 to 3.00	-4.00 to -2.25
72	35	6.00	0.75 to 3.00	-2.00 to +2.00
72	35	8.00	0.75 to 3.00	+2.25 to +4.50
72	35	10.00	0.75 to 3.00	+4.75 to +8.00

Material & Coating Specifications:

Type	Hard Resin	
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)	1.8 mm Centre Thickness UVA : 91 % : UVB : 100 %	
Coating Type	Perma-Gard™ (& Uncoated)	

Blank Information:

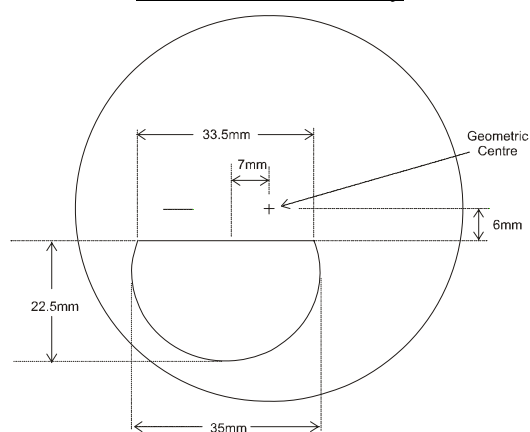
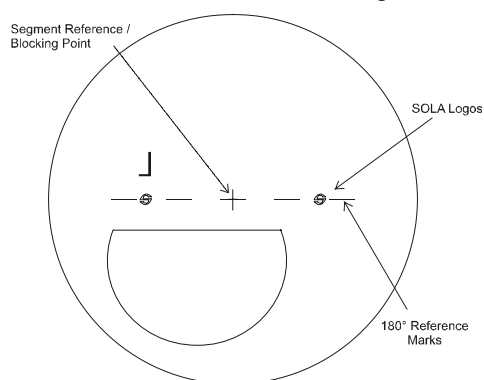
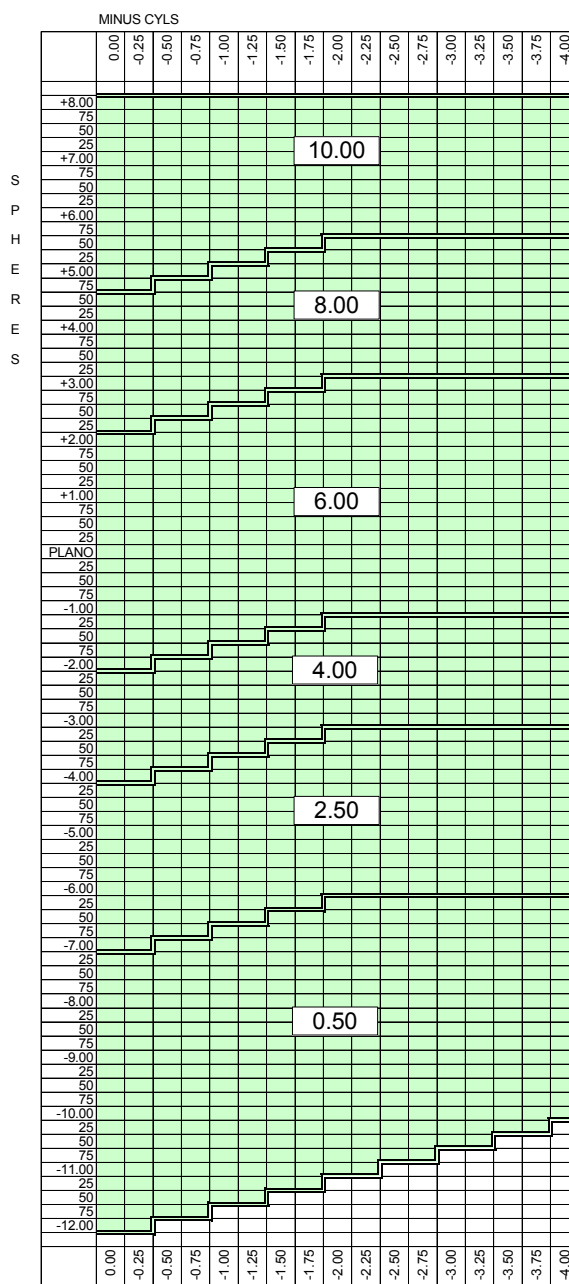
Nominal Base	Radii (mm)	True Front Curve (D) (1.530)	True Front Curve (D) (1.499)	Central Curve Sag @ 50mm (mm)	Nominal Back Curve (D)	Centre Thickness (mm)	Nominal Edge Thickness (mm)	Packaged Weight (g)
0.50	1432.43	0.37	0.35	0.22	-3.00	12.8 ± 1.0	16.0	85
2.50	246.51	2.15	2.02	1.27	-6.00	11.0 ± 1.0	16.0	80
4.00	144.02	3.68	3.47	2.19	-6.00	9.9 ± 1.0	13.0	69
6.00	89.53	5.92	5.58	3.56	-6.00	7.9 ± 1.0	8.0	51
8.00	66.17	8.01	7.54	4.91	-6.00	11.5 ± 1.0	8.5	62
10.00	53.00	10.00	9.42	6.27	-6.00	15.0 ± 1.0	8.5	73

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)
-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: Geometry****Front Surface: Ink Markings****Back Surface: Coding****Recommended Range Chart:**

Substrate	:	HARD RESIN	
Product Name	:	76 x 35 mm FLAT TOP BIFOCAL	
Product Type	:	SEMI-FINISHED BLANKS	Cat Codes: HC-770 Unc-127
Specification Reference	:	F00061_1	
Date	:	20 November 2007	Page : 1 of 2

Design: Spherical. Seg line positioned 6 mm below and 6 mm nasally from Geometric Centre.

Product Range:

Nominal Diameter (mm)	Nominal Seg Size (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
76	35	2.50	1.00 to 3.00	-7.00 to -4.25
76	35	4.00	1.00 to 3.00	-4.00 to -2.25
76	35	6.00	1.00 to 3.00	-2.00 to +2.00
76	35	8.00	1.00 to 3.00	+2.25 to +4.50

Material & Coating Specifications:

Type	Hard Resin	
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)	1.8 mm Centre Thickness UVA : 91 % : UVB : 100 %	
Coating Type	Perma-Gard™ (& Uncoated)	

Blank Information:

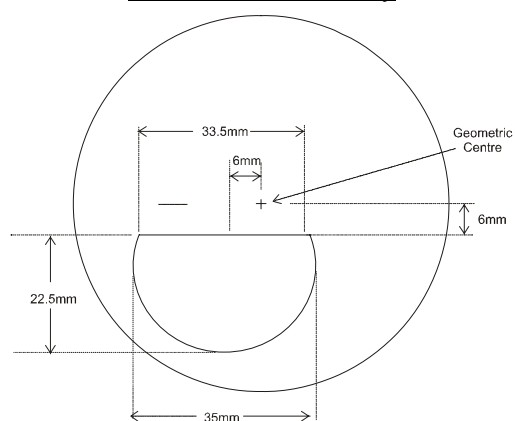
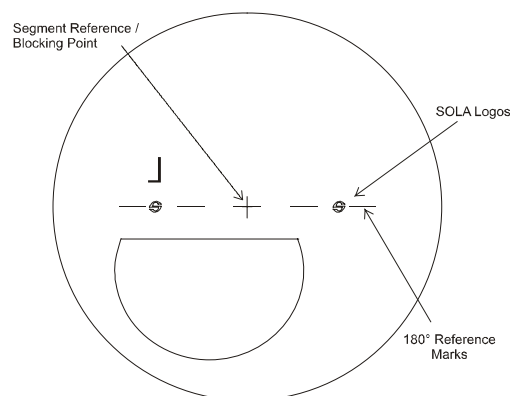
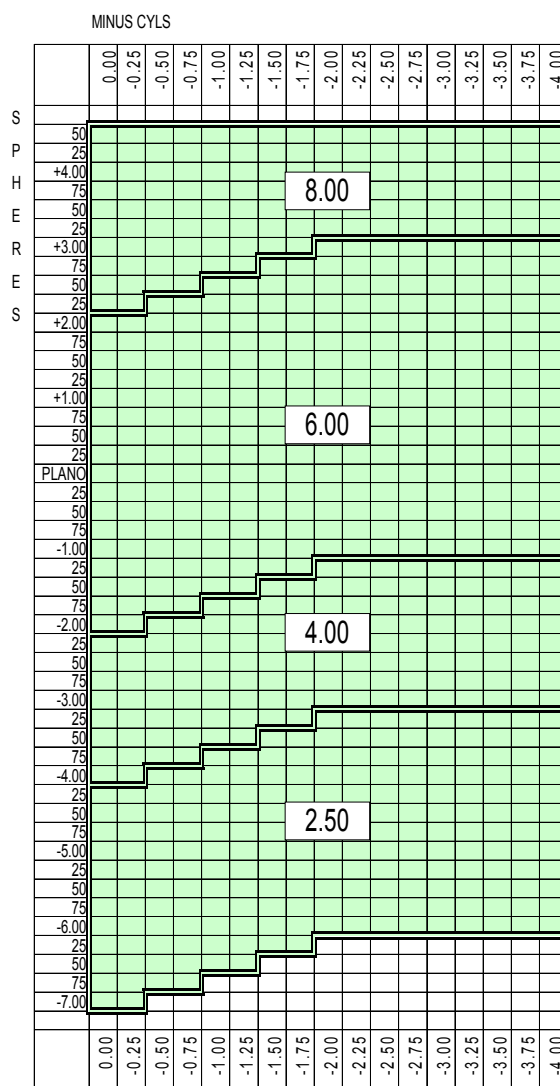
Nominal Base	Radii (mm)	True Front Curve (D) (1.530)	True Front Curve (D) (1.499)	Central Curve Sag @ 50mm (mm)	Nominal Back Curve (D)	Centre Thickness (mm)	Nominal Edge Thickness (mm)	Packaged Weight (g)
2.50	246.51	2.15	2.02	1.27	-3.00	15.8 ± 1.0	17.0	110
4.00	144.02	3.68	3.47	2.19	-6.00	11.5 ± 1.0	15.0	91
6.00	89.53	5.92	5.58	3.56	-6.00	8.9 ± 1.0	9.0	64
8.00	66.17	8.01	7.54	4.91	-6.00	12.4 ± 1.0	9.0	75

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)
-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 +4.50			0.5

Thicknesses are based on whichever is the limiting factor.

Product Markings:**Front Surface: Geometry****Front Surface: Ink Markings****Back Surface: Coding****Recommended Range Chart:**

Substrate	:	HARD RESIN	
Product Name	:	76 x 28 mm BLENDED ROUND SEG (EZ2Vue 28) BIFOCAL	
Product Type	:	SEMI-FINISHED BLANKS	Cat Codes: HC-755
Specification Reference	:	F0101145_1	
Date	:	18 December 2007	Page : 1 of 2

Design: Spherical. The Clear segment is 25 mm in diameter, centred 21.5 mm below the Geometric Centre (Datum).

Product Range:

Nominal Diameter (mm)	Nominal Seg Size (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
76	28	4.00	0.75 to 3.00	-4.00 to -2.25
76	28	6.00	0.75 to 3.00	-2.00 to +2.00
76	28	8.00	0.75 to 3.00	+2.25 to +4.50

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)	1.8 mm Centre Thickness UVA : 91 % : UVB : 100 %		
Coating Type	Perma-Gard[™]		

Blank Information:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Central Curve Sag @ 50mm (mm)	Nominal Back Curve (D)	Centre Thickness (mm) (± 1.0)	Nominal Edge Thickness (mm)	Packaged Weight (g)
4.00	3.68	144.02	2.19	-6.00	11.5	15.0	91
6.00	5.92	89.53	3.56	-6.00	8.9	9.0	64
8.00	8.01	66.17	4.91	-6.00	12.4	9.0	76

For External Distribution

Surfacing:

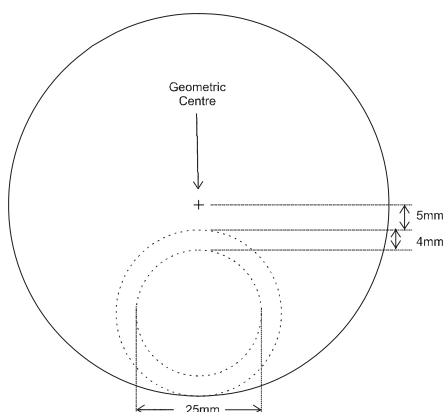
Recommended Centre & Edge Thicknesses

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-4.00 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 +4.50			0.5

Thicknesses are based on whichever is the limiting factor.

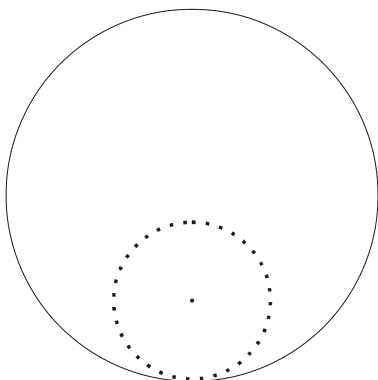
Product Markings:

Front Surface: Geometry



Front Surface: Ink Markings

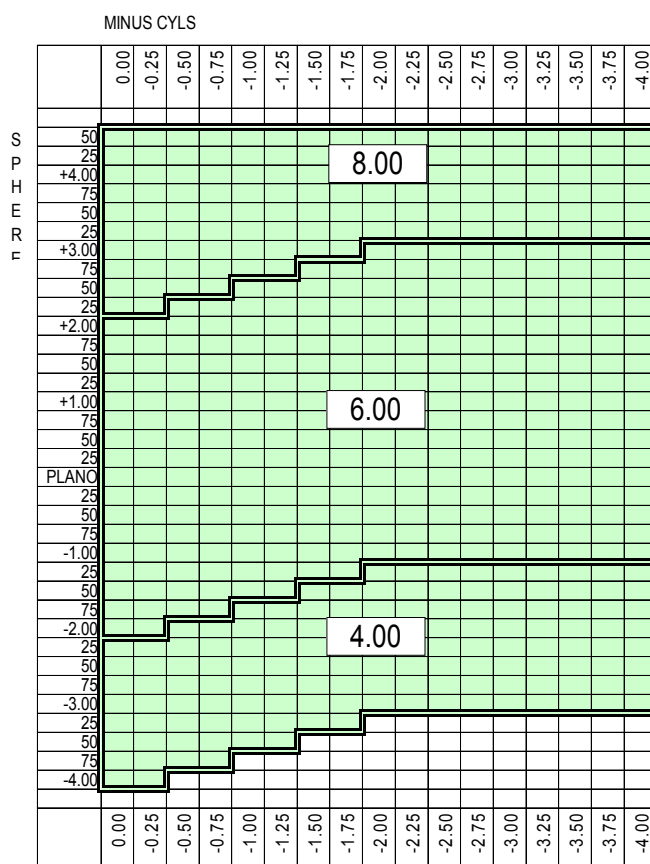
32mm dotted circle positioned 21.5 mm below
Geometric Centre



Back Surface: Coding



Recommended Range Chart:



Substrate	:	HARD RESIN	
Product Name	:	76 x 24 mm ROUND SEG BIFOCAL	
Product Type	:	SEMI-FINISHED BLANKS	Cat Code: 779
Specification Reference	:	F0101114_1	
Date	:	18 December 2007	Page : 1 of 2

Design: Spherical. The segment is 24 mm in diameter, centred 20 mm below the Geometric Centre (Datum).

Product Range:

Nominal Diameter (mm)	Nominal Seg Size (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
76	24	4.00	0.75 to 3.50	-4.00 to -2.25
76	24	6.00	0.75 to 3.50	-2.00 to +2.00
76	24	8.00	0.75 to 3.50	+2.25 to +4.50

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)	1.8 mm Centre Thickness UVA : 91 % : UVB : 100 %		
Coating Type	Perma-Gard[™]		

Blank Information:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Central Curve Sag @ 50mm (mm)	Nominal Back Curve (D)	Centre Thickness (mm) (± 1.0)	Nominal Edge Thickness (mm)	Packaged Weight (g)
4.00	3.68	144.02	2.19	-6.00	11.5	15.0	91
6.00	5.92	89.53	3.56	-6.00	8.9	9.0	64
8.00	8.01	66.17	4.91	-6.00	12.4	9.0	76

For External Distribution

Surfacing:

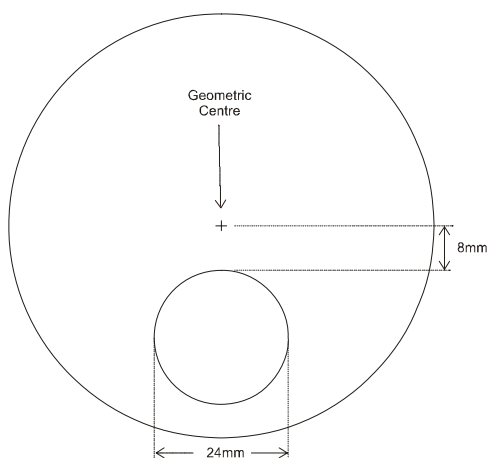
Recommended Centre & Edge Thicknesses

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-4.00 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 +4.50			0.5

Thicknesses are based on whichever is the limiting factor.

Product Markings:

Front Surface: Geometry



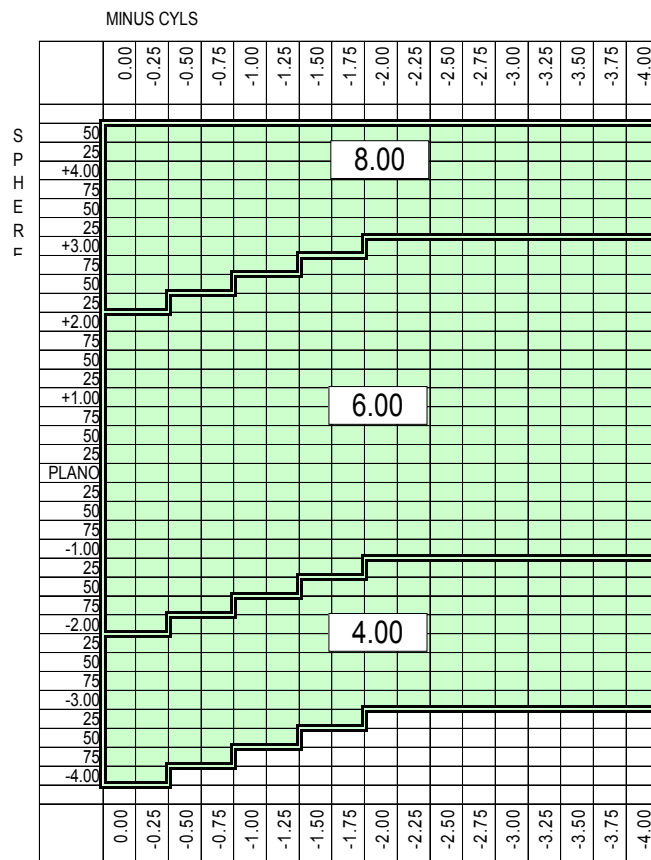
Front Surface: Ink Markings

None

Back Surface: Coding



Recommended Range Chart:



Substrate	:	HARD RESIN	
Product Name	:	'E' LINE BIFOCAL	
Product Type	:	SEMI FINISHED LENSES	Cat Codes: Unc 68mm-045 HC 78mm-780
Reference	:	F0101118_3	
Date	:	8 Nov 2004	Page : 1 of 2

Optical Design:

Spherical front surface. Addition segment covers the entire lower section of the lens. The seg line is 5 mm below the datum position.

The near optical centre is located 8 mm below the datum and inset 3 mm nasally.

Product Range:

Nominal Diameter	Nominal Base Curve (D)	Add Power Range (D)	Rx Range Recommended (D)
68 mm only	2.50	1.00 to 3.00	-7.00 to -4.50
68 & 78 mm	4.00	1.00 to 3.00	-4.25 to -0.25
68 & 78 mm	6.00	0.75 to 3.00	0.00 to +3.00
68* & 78 mm	8.00	0.75 to 3.00	+3.25 to +6.00

~~*68mm 8.00 base only available uncoated.~~

Material & Coating Specifications:

Type	Hard Resin	
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)	UVA : 91 % : UVB : 100 %	
Coating Types	Perma-Gard™ & Uncoated	

Lens Blank Information: (As measured in 1.530 R.I)

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Sag @ 50mm (mm)	Nominal Back Curve (D)	Centre Thickness (mm) Minimum		Nominal Edge Thickness at bottom edge (mm) ^{Note 1}	
					78mm	68mm	78mm	68mm
2.50	2.15	246.5	1.27	-6.00	n/a	8.5 ± 1.0	n/a	12.0
4.00	3.68	144.0	2.19	-6.00	9.5 ± 1.0	11.2 ± 1.0	11.0	13.0
6.00	5.92	98.5	3.56	-6.00	12.2 ± 1.0	10.7 ± 1.0	11.0	10.5
8.00	8.01	66.2	4.91	-6.00	16.6 ± 1.0	13.7 ± 1.0	11.0	10.5

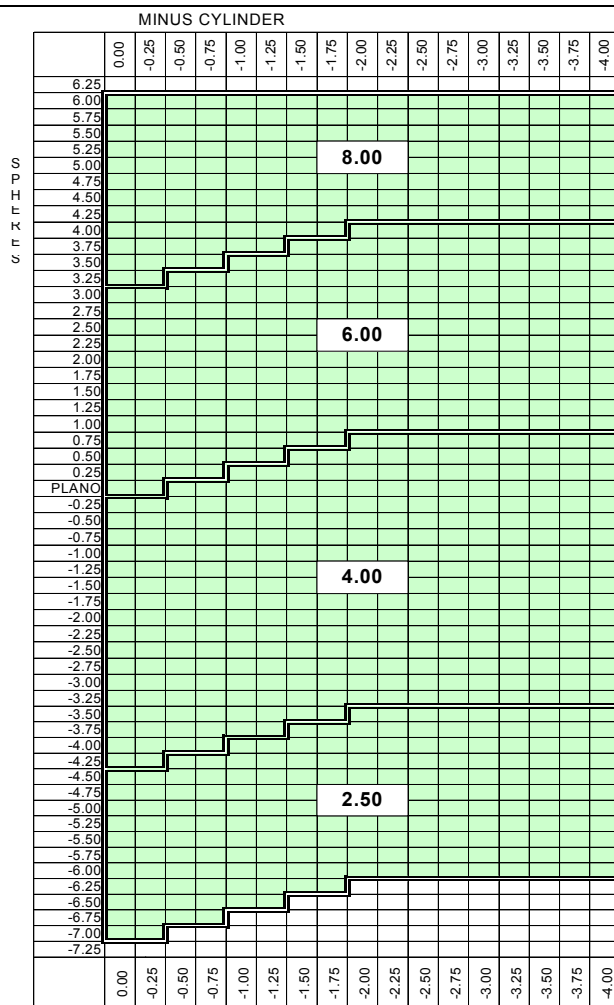
Note 1 : These values are based on the lowest add power for each base.

Surfacing:

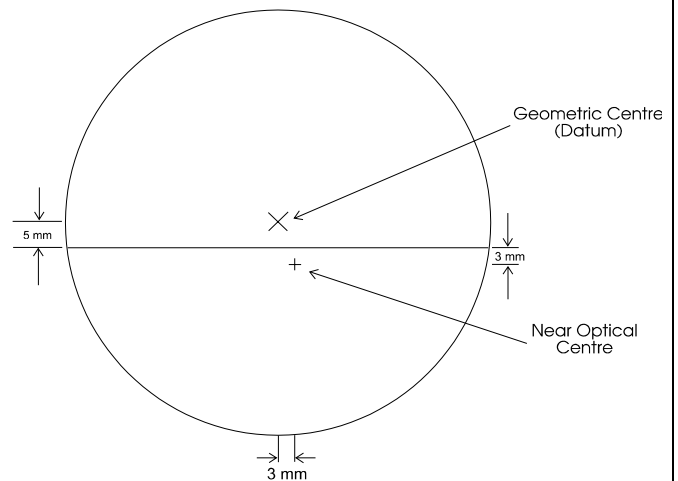
Recommended centre & edge thicknesses for all regions:

Power Range	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-7.00 to -2.00 D	2.0	1.5	
-1.75 to +2.00 D	2.0 or *	2.0 or *	1.0 *
+2.25 to +4.00 D			1.0
+4.25 to +6.00 D			0.5

*Thicknesses are based on whichever is the limiting factor.

Recommended Range Chart:**Lens Geometry :**

(As viewed looking at the front side)



Note : After surfacing, the location of the near optical centre will vary horizontally, depending upon the through power of the lens.

Substrate : **HARD RESIN**

Product Name : **FLAT TOP BIFOCAL ~~(68 x 25 mm)~~, (68 x 28 mm)**

Product Type : **FINISHED LENSES** Cat Code: 356

Reference : F0101207_1

Date : 15 May 2002

Page : 1 of 1

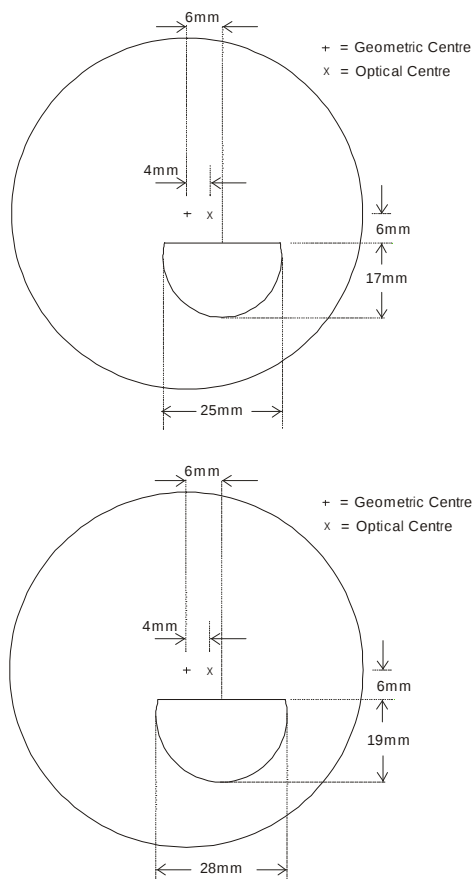
Product Range :

Nominal Diameter	Nominal Seg Diameter	Distance Sphere Power (D)	Step (D)	Cyl Power (D)	Add Power Range (D)	Step (D)
68 mm	25 mm	0.00 to +3.00	0.25	0.00	1.00 to 3.00	0.25
68 mm	28 mm	0.00 to +3.00	0.25	0.00	1.00 to 3.00	0.25

Material & Coating Specifications:

Type	Hard Resin	
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)	UVA : 91 % : UVB : 100 %	
Coating Types	Uncoated	

Product Geometry :



Nominal Values : 68mm Plus Range (Sphere Geometry) in 1.530 Index					
Power (D)	Distance Front Curve (D)	Back Curve (D)	Centre Thickness	Ave. Edge Thickness	Nom. Packaged Weight (g)
+3.00	7.47	-4.50	6.0	2.3	23
+2.75	7.23	-4.50	5.6	2.3	22
+2.50	6.99	-4.50	5.2	2.2	21
+2.25	6.75	-4.50	4.9	2.2	20
+2.00	6.99	-5.00	4.4	2.0	19
+1.75	6.74	-5.00	4.1	2.0	18
+1.50	6.49	-5.00	3.7	1.9	17
+1.25	6.24	-5.00	3.4	1.9	16
+1.00	6.71	-5.75	3.4	2.2	17
+0.75	6.46	-5.75	3.1	2.2	16
+0.50	6.22	-5.75	2.7	2.1	14
+0.25	5.96	-5.75	2.4	2.1	14
0.00	5.71	-5.75	2.1	2.0	12

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

Product Name : **66 x 28 mm FLAT TOP BIFOCAL**

Product Type : **SEMI-FINISHED BLANKS** Cat Codes: **White-040 PGX-041**

Reference : **F0102066_1**

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

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

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
66	4.25	0.75 to 4.00	-4.00 to -2.25
66	6.25	0.75 to 4.00	-2.00 to +2.00
66	8.25	0.75 to 4.00	+2.25 to +5.50

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 :

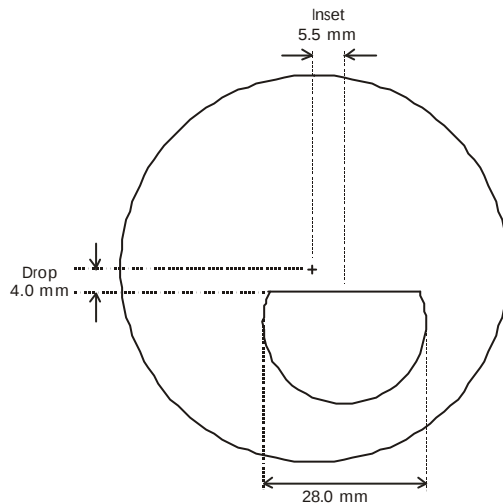
Base	Radius (mm)	True Front Curve (D) (1.530)	True Front Curve (D) (1.523)	Central Curve Sag @ 50mm (mm)	Nominal Back Curve (D) (1.530)	Nominal Edge Thickness (mm)	Centre Thickness (±1.0mm)
4.25	128	4.15	4.10	2.47	-6.00	8.9	7.8
6.25	85.5	6.20	6.12	3.74	-6.00	5.5	6.8
8.25	64.9	8.17	8.06	5.01	-6.00	4.9	7.5

For External Distribution

The 'eye' logo and SOLA, are trademarks of SOLA International Inc.

Surfacing :**Recommended Centre & Edge Thicknesses**

Power Range (D)		Minimum Centre Thickness	Minimum Edge Thickness
-4.00	to 0.00	1.5 mm	
+0.25	to +5.50		1.0 mm

Product Geometry :**Front Surface : Semi-Visible**

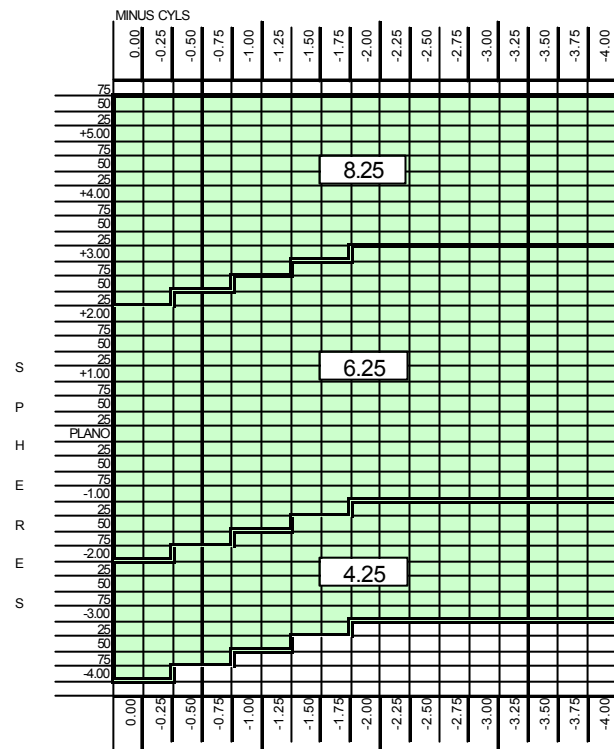
None

Front Surface : Ink Markings

None

Back Surface : Coding

None

Range Chart :

Substrate	:	1.523 GLASS (WHITE & PHOTOGRAY EXTRA)	
Product Name	:	71 x 28 mm FLAT TOP BIFOCAL	
Product Type	:	SEMI-FINISHED BLANKS	Cat Codes: White-044 PGX-046
Reference	:	F0102069_1	
Date	:	23 Nov 2001	Page : 1 of 2

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

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)			Recommended Rx Range (D)		
71	2.00	1.00	to	3.00	-7.00	to	-4.25
71	4.25	1.00	to	3.50	-4.00	to	-2.25
71	6.25	1.00	to	3.50	-2.00	to	+2.00
71	8.25	1.00	to	3.50	+2.25	to	+5.50

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)

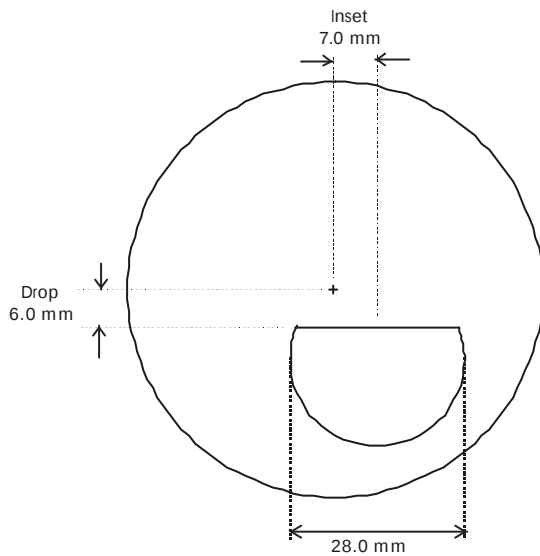
Blank Information :

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)
2.00	265	2.00	1.97	1.18	-6.00	13.3	8.7
4.25	128	4.15	4.10	2.47	-6.00	9.9	8.0
6.25	85.5	6.20	6.12	3.74	-6.00	6.3	7.1
8.25	64.9	8.17	8.06	5.01	-6.00	5.8	10.0

For External Distribution

Surfacing :**Recommended Centre & Edge Thicknesses**

Power Range (D)			Minimum Centre Thickness	Minimum Edge Thickness
-7.00	to	0.00	1.5 mm	
+0.25	to	+5.50		1.0 mm

Product Geometry :**Front Surface : Semi-Visible Markings**

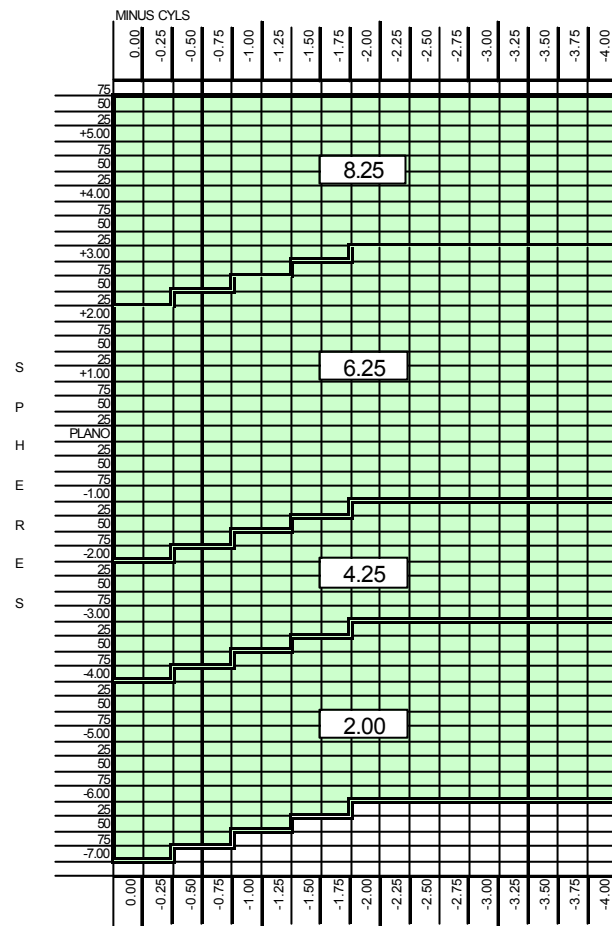
None

Front Surface : Ink Markings

None

Back Surface : Coding

None

Range Chart :



PRODUCT FACT SHEET

Substrate : **1.5 PhotoFusion®**

Product Name : **76 x 7 x 28 mm FLAT TOP TRIFOCAL**

Product Type : **SEMI-FINISHED BLANKS**

Reference : 00316.FS1

Date : 2 May 2012

Page : 1 of 2

Product Range :

CAT Code	Hardcoated
Grey	F84

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
74	4.00	1.50 to 3.00	-4.00 to -2.25
76	6.00	1.50 to 3.00	-2.00 to +2.00
76	8.00	1.50 to 3.00	+2.25 to +6.00

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 ($\pm 1.0\text{mm}$)	Nominal Edge Thickness (mm)	Nominal Packaged Weight (g)
4.00	3.68	144.02	-6.00	11.4	14.7	86
6.00	5.92	89.53	-6.00	8.9	9.0	66
8.00	8.01	66.17	-6.00	12.4	9.0	77

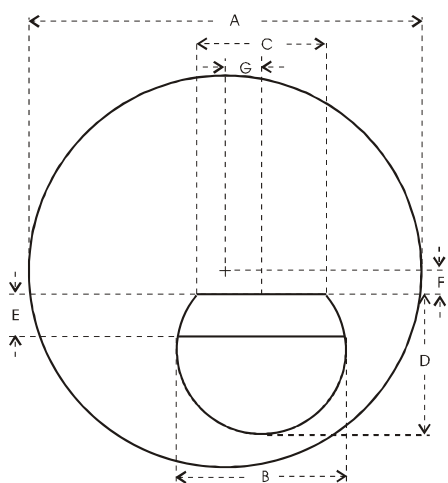
Surfacing: Recommended Centre & Edge Thicknesses

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-4.00 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 +6.00			0.5

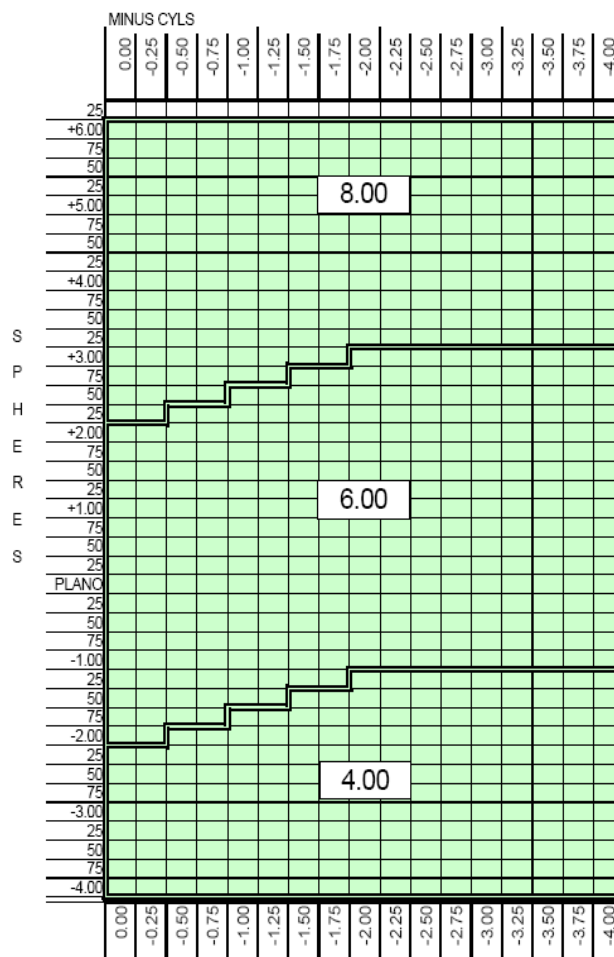
**Thicknesses are based on whichever is the limiting factor.*

Product Geometry :**Range Chart :**

Code	Description	Dimension (mm)
A	Lens Diameter	76.0
B	Seg Diameter	28.0
C	Seg Line Length	21.5
D	Seg Depth	23.0
E	Intermediate Band Width	7.0
F	Distance Below Datum	4.0
G	Inset From Datum	6.0



Back surface markings





PRODUCT FACT SHEET

Substrate	:	1.5 TRANSITIONS® SIGNATURE VII		
Product Name	:	7 x 28 mm FLAT TOP TRIFOCAL		
Product type	:	SEMI-FINISHED BLANKS		
Reference	:	00399.FS1		
Date	:	18 December 2013	Page	: 1 of 2

Product Range:

Product:	Gray HC
LGC:	L6426
CAT Code:	V95

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)		Recommended Rx Range (D)	
74	4.00	1.50	to 3.00	-4.00	to -2.25
76	6.00	1.50	to 3.00	-2.00	to +2.00
76	8.00	1.50	to 3.00	+2.25	to +6.00

Material & Coating Specifications:

Type	CR-607®	
Refractive Index	$n_d = 1.497$	$n_e = 1.499$
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	

Blank Information: Curves in 1.530 RI

Nominal Base	True Front Curve (D)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness ($\pm 1.0\text{mm}$)	Nominal Edge Thickness (mm)
4.00	3.68	144	-6.00	11.4	14.7
6.00	5.92	89.2	-6.00	8.9	9.0
8.00	8.01	66.2	-6.00	12.4	9.0

Surfacing:

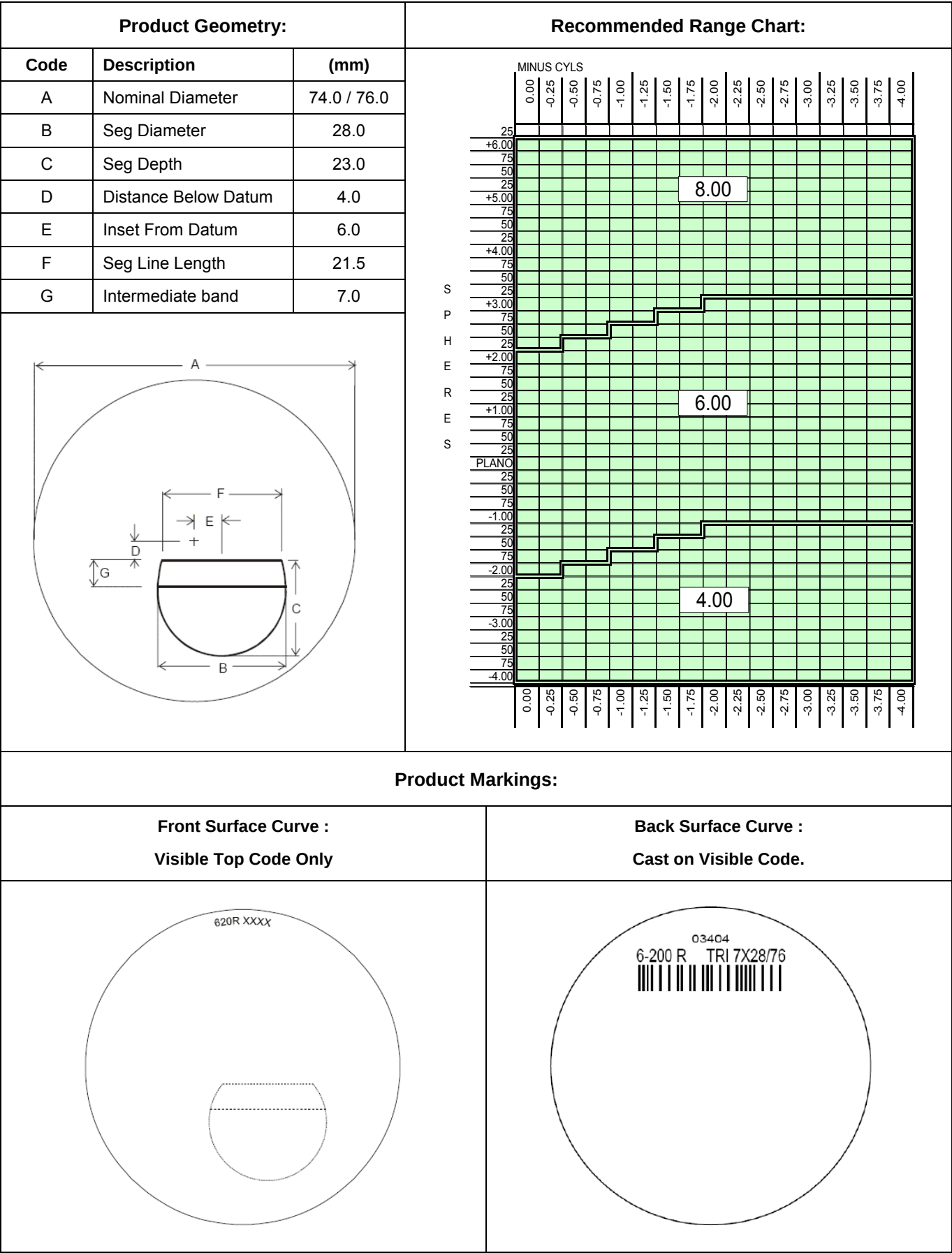
Recommended centre & edge thicknesses for all regions:

Power Range (D)	USA Market Minimum Centre Thickness	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-4.00 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 +6.00			0.5

* Thicknesses are based on whichever is the limiting factor

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 Optical Inc.



Substrate : **HARD RESIN**

Product Name : **72 x 7 x 28mm FLAT TOP TRIFOCAL**

Product Type : **SEMI-FINISHED BLANKS**

Reference : 00022.FS2

Date : 18 January 2012

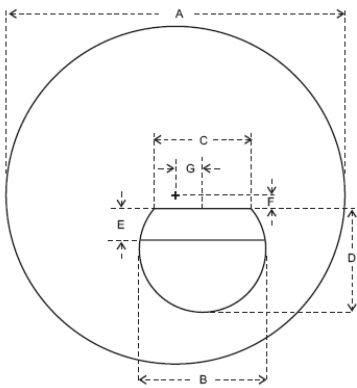
Page : 1 of 2

Product Range:

Product:	Hard Coated	Uncoated
CAT Code:	512	227

Nominal Diameter (mm)	Nominal Seg Size (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
72	28	2.50	1.50 to 3.50 & 4.00	-7.25 to -4.25
72	28	4.00	1.50 to 3.50 & 4.00	-4.00 to -2.25
72	28	6.00	1.50 to 3.50 & 4.00	-2.00 to +2.00
72	28	8.00	1.50 to 3.50 & 4.00	+2.25 to +4.50
72	28	10.00	1.50 to 3.50 & 4.00	+4.75 to +8.00

Front Surface Geometry:

	Code	Description	Dimension (mm)
	A	Lens Diameter	72
	B	Segment Diameter	28.0
	C	Segment Line Width	21.5
	D	Segment Depth	23.0
	E	Intermediate Band	7.0
	F	Distance Below Datum	3.0
	G	Inset From Datum	7.0

Blank Information:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0mm)	Nominal Edge Thickness (mm)	Nominal Packaged Weight (g)
2.50	2.15	246.51	-6.00	11.0	16.0	80
4.00	3.68	144.02	-6.00	9.9	13.0	67
6.00	5.92	89.53	-6.00	7.9	8.0	48
8.00	8.01	66.17	-6.00	11.5	8.5	59
10.00	10.00	53.00	-6.00	15.0	8.5	73

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.

Material & Coating Specifications:

Type	CR39 [®]	
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	

Surfacing:

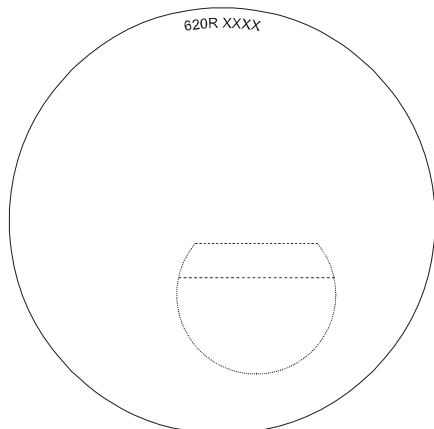
Recommended Centre & Edge Thicknesses

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-7.25 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			

* Thicknesses are based on whichever is the limiting factor.

Product Markings:

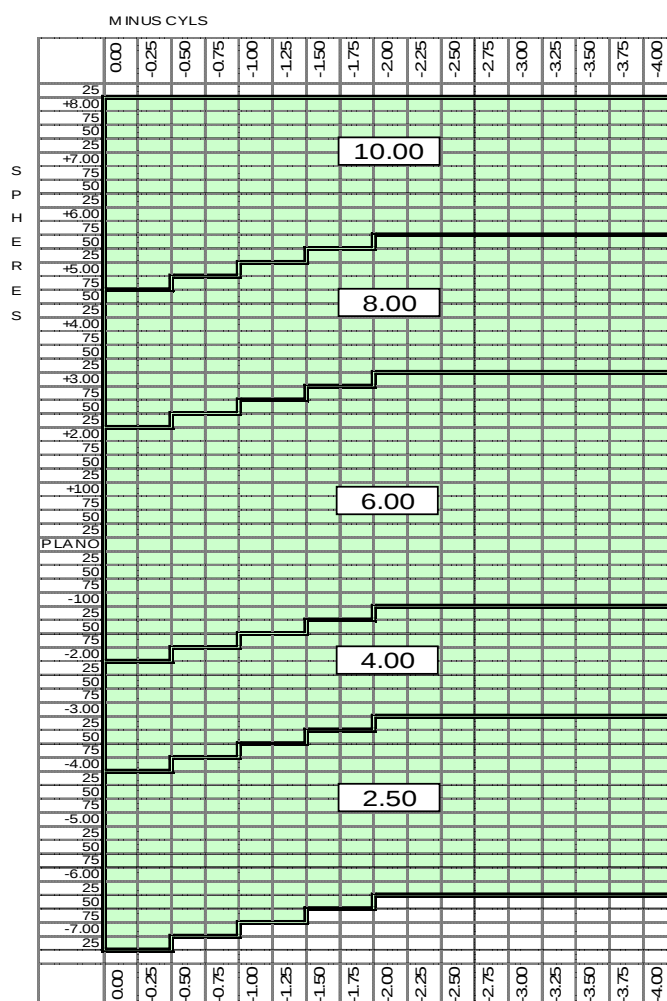
Front Surface: Top code Only



Back Surface: Coding



Recommended Range Chart:



Substrate : **HARD RESIN**

Product Name : **72 x 8 x 35mm FLAT TOP TRIFOCAL**

Product Type : **SEMI-FINISHED BLANKS**

Reference : 00055.FS2

Date : 18 January 2012

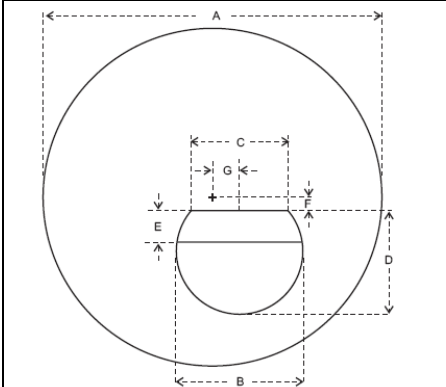
Page : 1 of 2

Product Range:

Product:	Hard Coated	Uncoated
CAT Code:	967	277

Nominal Diameter (mm)	Nominal Seg Size (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
72	35	4.00	1.50 to 3.00	-4.00 to -2.25
72	35	6.00	1.50 to 3.00	-2.00 to +2.00
72	35	8.00	1.50 to 3.00	+2.25 to +4.50

Front Surface Geometry:

	Code	Description	Dimension (mm)
	A	Lens Diameter	72
	B	Segment Diameter	35.0
	C	Segment Line Width	30.0
	D	Segment Depth	26.5
	E	Intermediate Band	8.0
	F	Distance Below Datum	3.0
	G	Inset From Datum	7.0

Blank Information:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0mm)	Nominal Edge Thickness (mm)	Nominal Packaged Weight (g)
4.00	3.68	144.02	-6.00	9.9	13.0	67
6.00	5.92	89.53	-6.00	7.9	8.0	48
8.00	8.01	66.17	-6.00	11.5	8.5	59

Material & Coating Specifications:

Type	CR39 [®]	
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	

Surfacing:

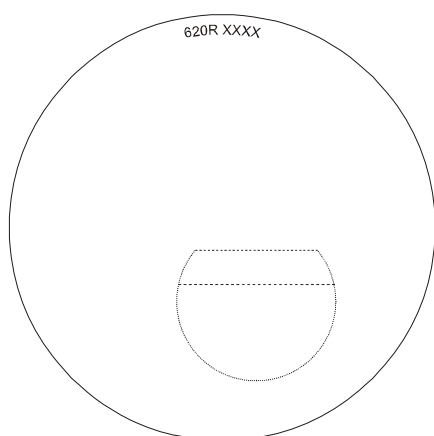
Recommended Centre & Edge Thicknesses

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-4.00 to -2.00	2.0	1.5	
-1.75 to +2.00	2.0 or *	2.0 or *	1.0 *
+2.25 to +4.50			1.0

* Thicknesses are based on whichever is the limiting factor.

Product Markings:

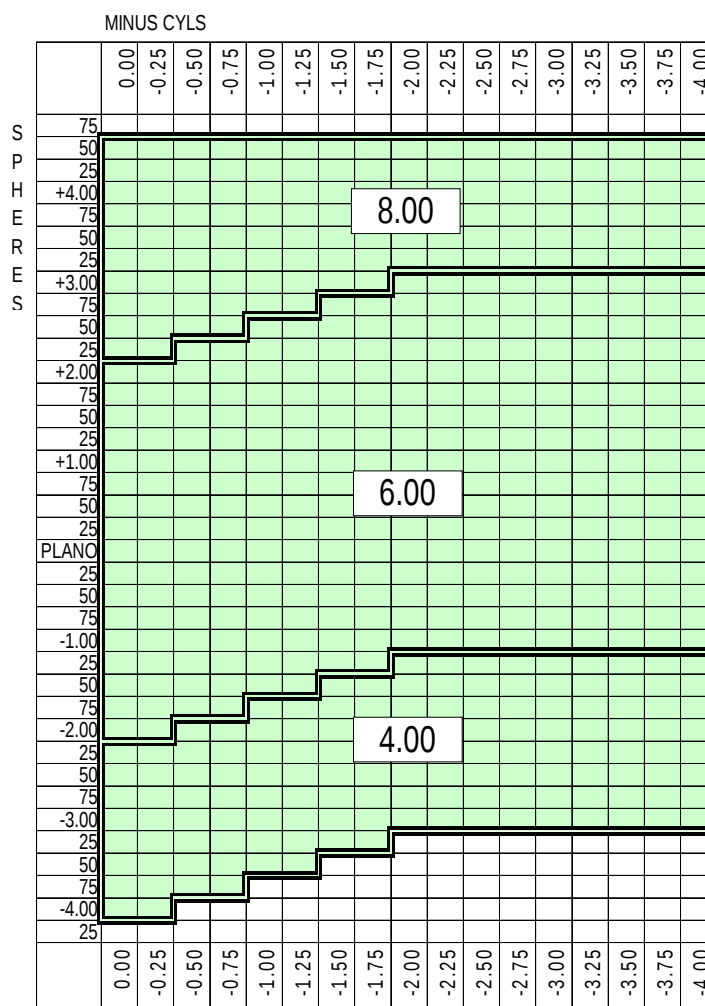
Front Surface: Top code Only



Back Surface: Coding



Recommended Range Chart:





PRODUCT FACT SHEET

Substrate	:	HARD RESIN			
Product Name	:	E-LINE TRIFOCAL			
Product type	:	SEMI-FINISHED BLANKS			
Reference	:	00026.FS1			
Date	:	26 February 2013	Page	:	1 of 2

Product Range:

Product:	Uncoated
CAT Code:	054
LGC:	L2023

Product Range:

Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
68	4.00	1.75 to 3.00	-4.25 to -0.25
68	6.00	1.75 to 3.00	0.00 to +3.00

Material & Coating Specifications:

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

Blank Information:

Diameter (mm)	Nominal Base (D)	True Front Curve (D) (1.530)	TFC Radius (mm)	Nominal Back Curve (D)	Centre Thickness ¹ (±1.0mm)	Nominal Edge Thickness (mm)
68	4.00	3.68	144.02	-6.00	10.6	12.0
68	6.00	5.92	89.53	-6.00	10.8	9.5

¹ These values are based on the 2.00 Add power for each base. The Higher Adds will typically have a thicker centre thickness.

For External Distribution

©2012 Carl Zeiss Vision International GmbH.
The Zeiss logo is a trademark of Carl Zeiss Vision Inc.
CR-39 is a registered trademark of PPG Industries Inc.

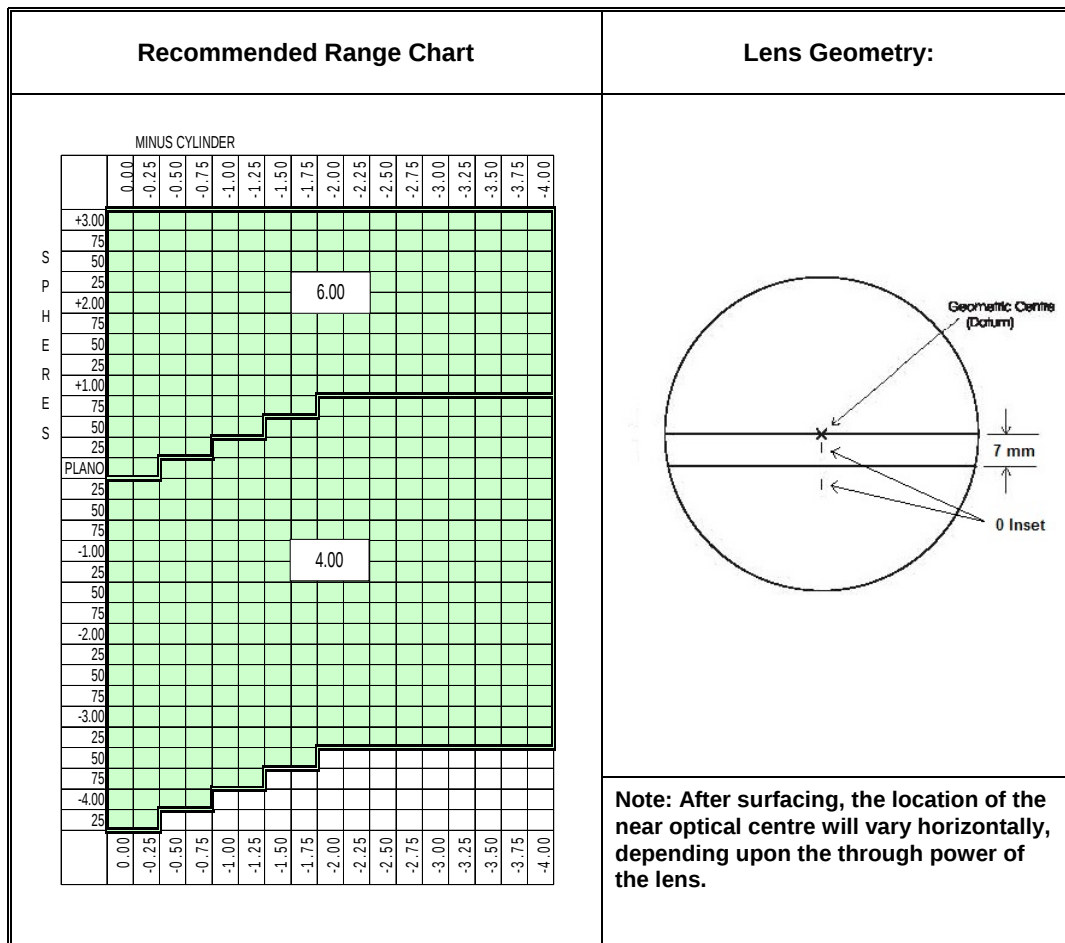
Reference	:	00026.FS1		
Date	:	26 February 2013	Page	: 2 of 2

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)
-4.25 to -2.00	2.0	1.5	
-1.75 to +2.00	2.0 or *	2.0 or *	1.0 *
+2.25 to +3.00			1.0

* Thicknesses are based on whichever is the limiting factor



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

Product Name : **71 x 7 x 28 mm FLAT TOP TRIFOCAL**

Product Type : **SEMI-FINISHED BLANKS** Cat Codes: **White-061 PGX-062**

Reference : **F0102078_1**

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

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

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)			Recommended Rx Range (D)		
71	2.00	1.50	to	3.00	-7.00	to	-4.25
71	4.25	1.50	to	3.50	-4.00	to	-2.25
71	6.25	1.50	to	3.50	-2.00	to	+2.00
71	8.25	1.50	to	3.50	+2.25	to	+5.50

Note : Intermediate Power is 50% of Add Power.

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 :

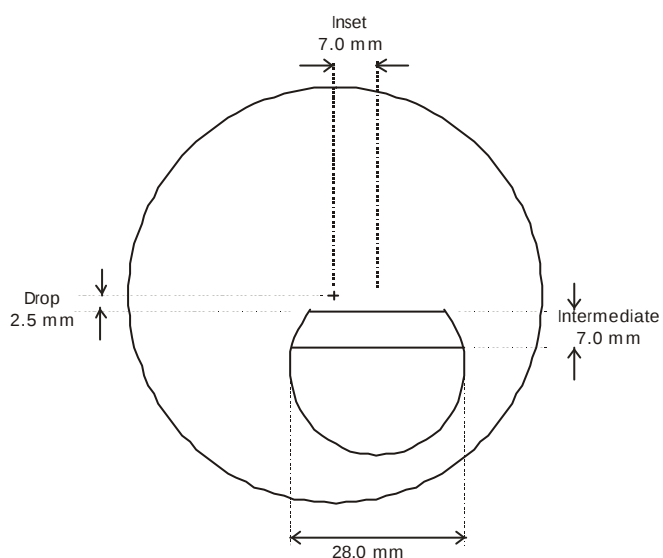
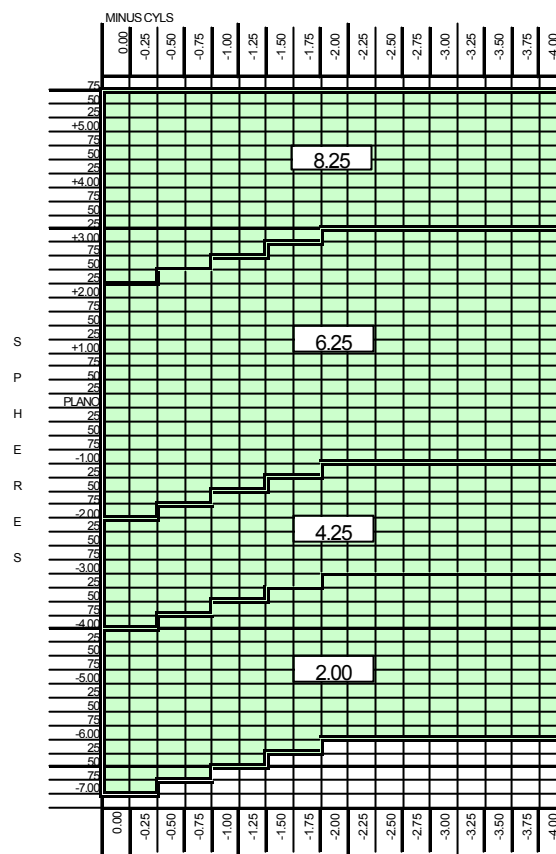
Base	Radius (mm)	True Front Curve (D) (1.530)	True Front Curve (D) (1.523)	Central Curve Sag @ 50mm (mm)	Nominal Back Curve (D) (1.530)	Nominal Edge Thickness (mm)	Centre Thickness (±1.0mm)
2.00	265	2.00	1.97	1.18	-6.00	13.3	8.7
4.25	128	4.15	4.10	2.47	-6.00	9.9	8.0
6.25	85.5	6.20	6.12	3.74	-6.00	6.3	7.1
8.25	64.9	8.17	8.06	5.01	-6.00	5.8	10.0

For External Distribution

The 'eye' logo and SOLA, are trademarks of SOLA International Inc.

Surfacing :**Recommended Centre & Edge Thicknesses**

Power Range (D)		Minimum Centre Thickness	Minimum Edge Thickness
-7.00	to 0.00	1.5 mm	
+0.25	to +5.50		1.0 mm

Product Geometry :**Range Chart :****Front Surface : Semi-Visible Markings**

None

Front Surface : Ink Markings

None

Back Surface : Coding

None