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# PRODUCT FACT SHEET

Substrate	:	<b>1.67 MR7</b>		
Product Name	:	<b>ZEISS GT2 PROGRESSIVE</b>		
Product type	:	<b>SEMI-FINISHED BLANKS</b>		
Reference	:	Z00003.FS4		
Date	:	14 June 2012	Page	: 1 of 3

**Product Range:**

<b>Product:</b>	<b>CAT Code:</b>	<b>LGC:</b>
Hard Coated	589	L1846

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
71/76	0.70	1.00 to 3.00	-16.00 to -10.25
76/81	1.40	1.00 to 3.00	-10.00 to -6.50
76/81	2.10	1.00 to 3.00	-6.25 to -4.25
76/81	3.10	1.00 to 3.00	-4.00 to -2.25
76/81	4.00	1.00 to 3.00	-2.00 to +1.75
76/81	4.90	1.00 to 3.00	+2.00 to +3.75
76/81	6.00	1.00 to 3.00	+4.00 to +6.00

**Material & Coating Specifications:**

<b>Type</b>	<b>MR-7™</b>
<b>Refractive Index</b>	$n_d = 1.659$ (Helium 'd' line 587.56nm) $n_e = 1.664$ (Mercury 'e' line 546.07nm)
<b>Abbe Number</b>	$v_d = 32$ $v_e = 32$
<b>Density</b>	1.35 g.cm <sup>-3</sup>
<b>UV Protection (ISO)</b>	100% UVA and UVB (from 380nm to 280nm as per ISO 8980-3)
<b>Coating Type</b>	<b>Hard Coated</b>

## For External Distribution

The Zeiss logo and Gradal are trademarks of Carl Zeiss Vision Inc.  
MR-7 is a trademark of Mitsui Chemicals Inc.

Reference	:	Z00003.FS4			
Date	:	14 June 2012	Page	:	2 of 3

**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 at 'A' (mm)
0.70	0.69	768.10	-6.00	<b>10.5</b>	17.2
1.40	1.34	395.50	-6.00	<b>10.5</b>	17.2
2.10	2.13	248.80	-6.00	<b>8.1</b>	13.2
3.10	3.08	172.10	-6.00	<b>7.8</b>	11.2
4.00	3.96	133.80	-6.00	<b>9.0</b>	11.2
4.90	4.84	109.50	-6.00	<b>8.2</b>	9.2
6.00	6.06	87.50	-6.00	<b>9.5</b>	9.2

**Surfacing:**

Recommended centre & edge thicknesses for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-16.00 to -10.25	1.3	
-10.00 to -1.50	1.2	
-1.25 to +0.00	1.3 to 2.0	
+0.25 to +6.00		2.0 to 0.6

# PRODUCT FACT SHEET



PhotoFusion® Lenses by ZEISS

Substrate : **1.67 MR7 PhotoFusion®**  
Product Name : **ZEISS GT2 PROGRESSIVE**  
Product type : **SEMI-FINISHED BLANKS**  
Reference : Z00309.FS3  
Date : 26 July 2012

Page : 1 of 2

## Product Range:

Colour:	Brown	Grey
CAT Code:	F66	F65

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
71/76	0.70	1.00 to 3.00	-16.00 to -10.25
76/81	1.40	1.00 to 3.00	-10.00 to -6.50
76/81	2.10	1.00 to 3.00	-6.25 to -4.25
76/81	3.10	1.00 to 3.00	-4.00 to -2.25
76/81	4.00	1.00 to 3.00	-2.00 to +1.75
76/81	4.90	1.00 to 3.00	+2.00 to +3.75
76/81	6.00	1.00 to 3.00	+4.00 to +6.00

## Material & Coating Specifications:

Type	MR-7™
Refractive Index	$n_d = 1.659$ $n_e = 1.664$
Abbe Number	$v_d = 32$ $v_e = 32$
Density	$1.35 \text{ g.cm}^{-3}$
UV Protection (ISO)	100% UVA and 100% UVB Coated , Activated : 2.0mm Centre Thickness
Coating Type	Hard Coated

## Blank Information:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (±1.0mm)	Nominal Edge Thickness (mm)
0.70	0.64	828.13	-6.00	10.5	17.2
1.40	1.33	398.50	-6.00	10.5	17.2
2.10	2.14	247.66	-6.00	8.1	13.2
3.10	3.03	174.92	-6.00	7.8	11.2
4.00	3.93	134.86	-6.00	9.0	11.2
4.90	4.80	110.42	-6.00	8.2	9.2
6.00	6.03	87.89	-6.00	9.5	9.2

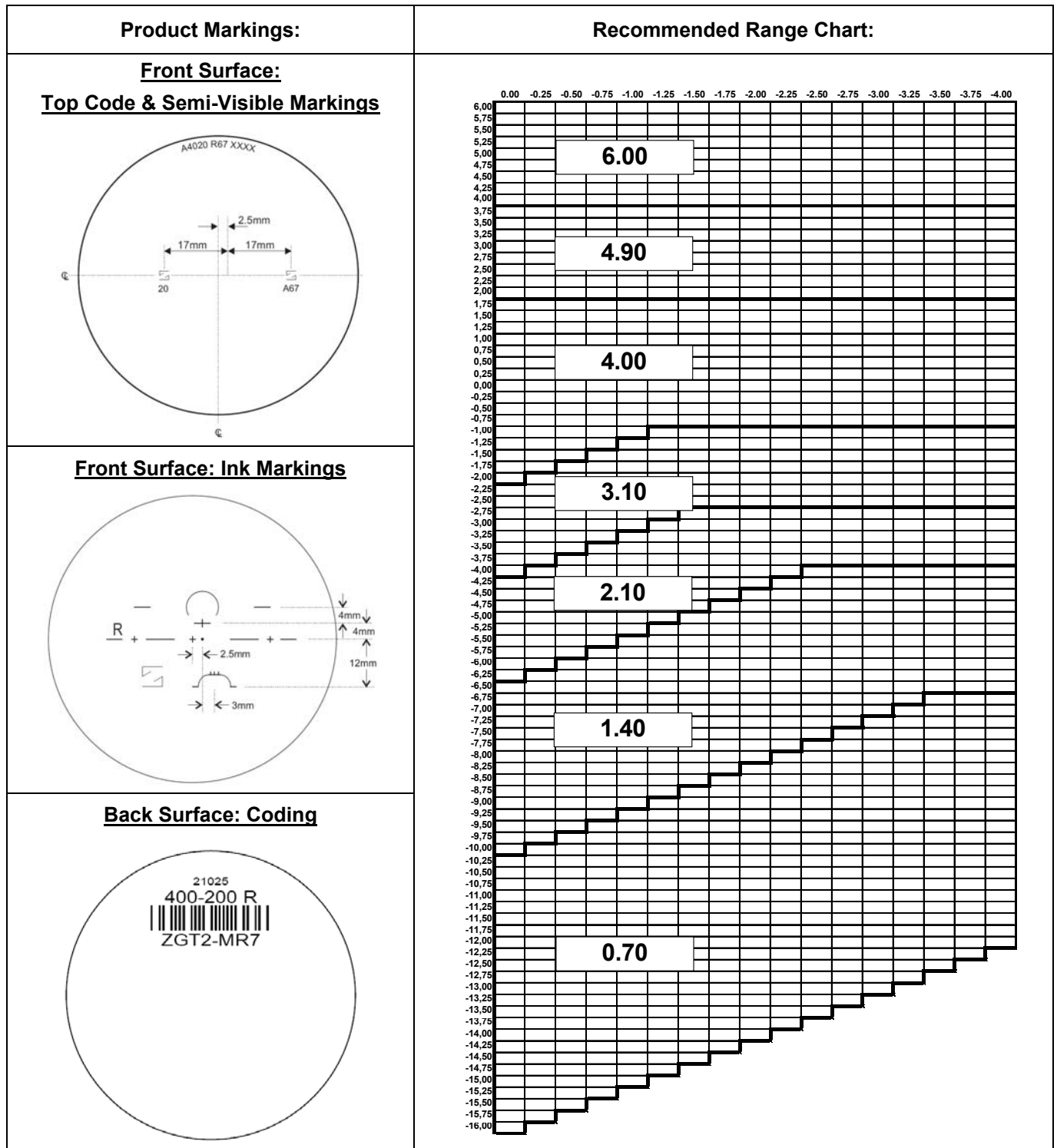
## For External Distribution

©2012 Carl Zeiss Vision International GmbH.  
PhotoFusion is a registered trademark of Carl Zeiss Vision International GmbH.  
MR-7 is a trademark of Mitsui Chemicals Inc.

**Surfacing:** Recommended centre & edge thicknesses.

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-16.00 to -2.00	1.5	
-1.75 to +2.00	1.5 or *	1.5 *
+2.25 to +4.00		1.0
+4.25 to +6.00		0.5

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



Substrate : **MINERAL 1.6**  
 Product Name : **GT2 1.6** **Cat Code: B78**  
 Product Type : **PROGRESSIVE SEMI-FINISHED BLANKS**  
 Reference : Z00284.FS2  
 Date : 09 Sept 2010 Page : 1 of 3

## Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
65/70	1.70	0.75 to 3.50	-10.00 to -6.25
70/75	2.60	0.75 to 3.50	-6.00 to -4.25
70/75	3.50	0.75 to 3.50	-4.00 to -2.25
70/75	4.50	0.75 to 3.50	-2.00 to +1.75
70/75	5.50	0.75 to 3.50	+2.00 to +4.00
65/70	6.80	0.75 to 3.50	+4.25 to +6.00

## Material Specifications:

Type	Mineral 1.6
Refractive Index	$\eta_d = 1.601$ (Helium 'd' line 587.56nm) $\eta_e = 1.604$ (Mercury 'e' line 546.07nm)
Abbe Number	$v_d = 44.1$ $v_e = 43.8$
Density	$2.67 \text{ g}\cdot\text{cm}^{-3}$
Yellowness Index	$Y_i = 2.0$ (10 mm Centre Thickness)
UV Transmittance	31.2% SUVA / <0.05% SUVB (Uncoated : 2.0 mm Centre Thickness)
Transmittance	$\tau_{vD65} = 89.8 \%$ (surfaced 2.0 mm plano)

## For External Distribution

**Blank Geometry:** (As measured in 1.530 R.I.)

Nominal Base (D)	Radius (mm)	Nominal True Front Curve (D) (1.530)	Nominal Back Curve (D) (1.530)	Centre Thickness (mm)	Nominal Edge Thickness (mm)
1.70	327.90	1.62	-7.57	8.6	13.8
2.60	224.70	2.36	-6.06	6.6	9.8
3.50	158.42	3.35	-6.06	7.1	9.1
4.50	126.38	4.19	-6.06	7.1	8.0
5.50	99.95	5.30	-6.06	7.9	7.6
6.80	80.56	6.58	-6.06	9.0	7.1

Note 1: Blank thickness is determined by **centre thickness**.

Note 2: Blanks having visually uneven edge thickness shall be checked for prism.

**Surfacing:**

**Recommended** centre & edge thickness for all regions (without US):

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 to -3.25	1.0	
-3.00 to +2.75	1.1	
-2.50 to ±0.00	1.8 to 1.2	
+0.25 to +2.25		1.7 to 1.0
+2.50 to +6.00		0.9 to 0.5

Recommended centre & edge thickness for US:

Power Range	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 D to +1.00 D	2.2	
+1.25 D to +6.00 D		1.0

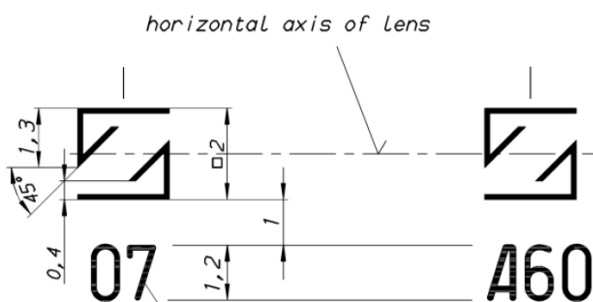
**This glass lens blank requires further treatment to be considered impact resistant. The final processor is responsible to render it impact resistant in accordance with 21 CFR 801.410 as required in the US.**

**Product Markings:**

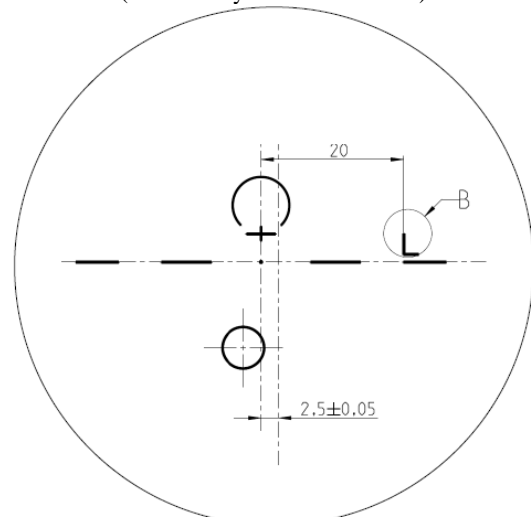
Front Surface:  
Semi-Visible Markings

**Position :**

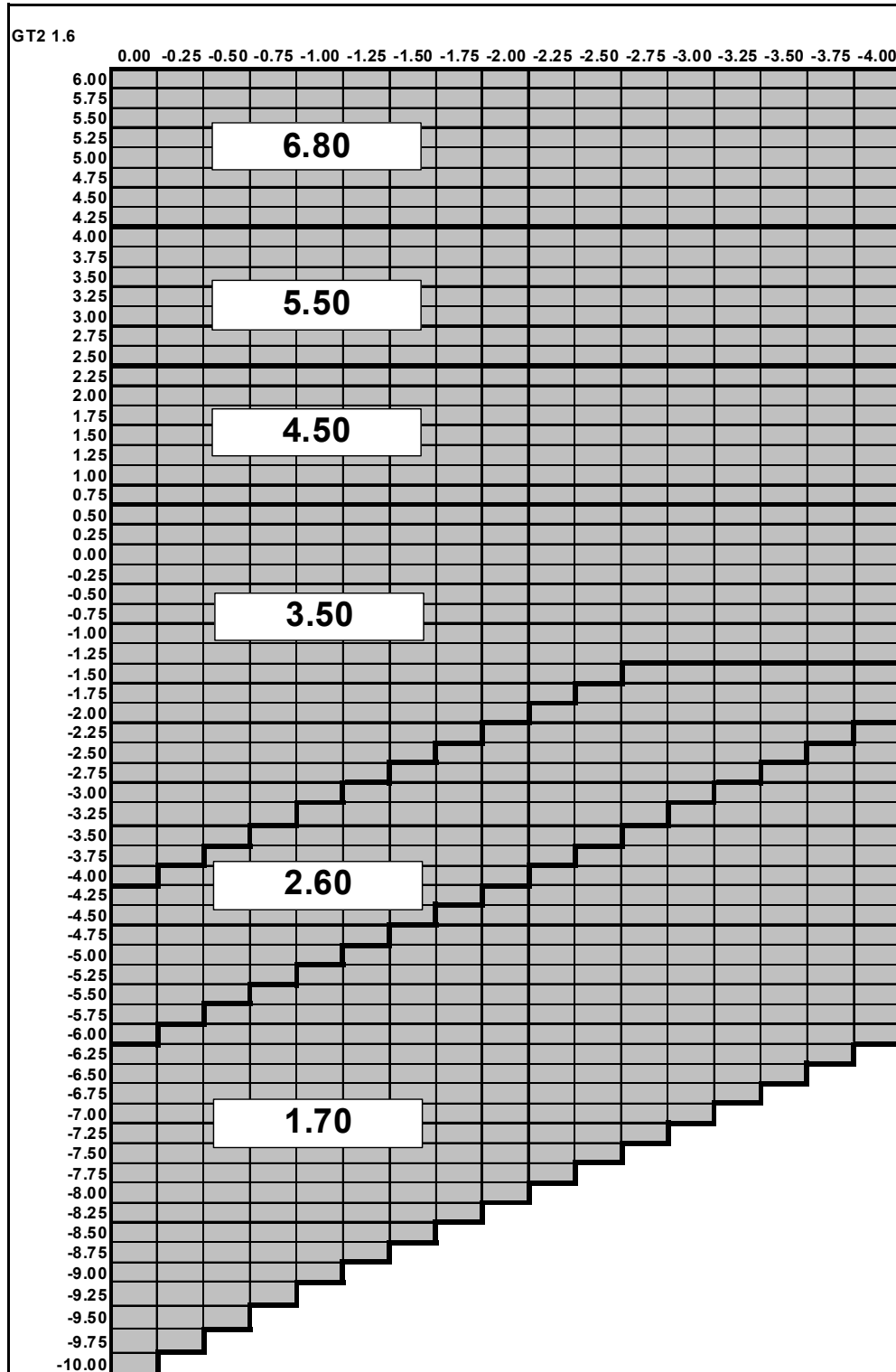
2.5 mm nasal in height of geometrical centre



Front Surface: Ink Markings  
(Uncoated: yellow water based)



**Recommended Range Chart:**





Substrate : **MINERAL 1.6 Photochromic Gray**

Product Name : **GT2 1.6** Cat Code: **B79**

Product Type : **PROGRESSIVE SEMI-FINISHED BLANKS**

Reference : Z00286.FS2

Date : 09 Sept 2010 Page : 1 of 3

**Product Range:**

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
65/70	1.70	0.75 to 3.50	-10.00 to -6.25
70/75	2.60	0.75 to 3.50	-6.00 to -4.25
70/75	3.50	0.75 to 3.50	-4.00 to -2.25
70/75	4.50	0.75 to 3.50	-2.00 to +1.75
70/75	5.50	0.75 to 3.50	+2.00 to +4.00
65/70	6.80	0.75 to 3.50	+4.25 to +6.00

**Material Specifications:**

Type	Mineral 1.6 photochromic grey	
<b>Refractive Index</b>	$\eta_d = 1.601$ (Helium 'd' line 587.56nm) $\eta_e = 1.604$ (Mercury 'e' line 546.07nm)	
<b>Abbe Number</b>	$v_d = 43.0$ $v_e = 42.8$	
<b>Density</b>	$2.74 \text{ g cm}^{-3}$	
<b>Transmittance (gray)</b>	$T_{vD65(0)} = 87.0 \%$ (surfaced 2.00mm plano)	$T_{vD65(15)} = 25.0 \%$ (surfaced 2.00mm plano)
	""	
<b>UV Transmittance</b>	1.2% SUVA / <0.1% SUVB (Uncoated: 2.0 mm Centre Thickness)	

## For External Distribution

**Blank Geometry:** (As measured in 1.530 R.I.)

Nominal Base (D)	Radius (mm)	Nominal True Front Curve (D) (1.530)	Nominal Back Curve (D) (1.530)	Centre Thickness (mm)	Nominal Edge Thickness (mm)
1.70	333.10	1.59	-7.57	8.6	13.8
2.60	227.63	2.33	-6.06	6.6	9.8
3.50	159.09	3.33	-6.06	7.1	9.1
4.50	126.25	4.20	-6.06	7.1	8.0
5.50	99.76	5.31	-6.06	7.9	7.6
6.80	80.42	6.59	-6.06	9.0	7.1

Note 1: Blank thickness is determined by **centre thickness**.

Note 2: Blanks having visually uneven edge thickness shall be checked for prism.

**Surfacing:**

**Recommended** centre & edge thickness for all regions (without US):

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 to -3.25	1.0	
-3.00 to +2.75	1.1	
-2.50 to ±0.00	1.8 to 1.2	
+0.25 to +2.25		1.7 to 1.0
+2.50 to +6.00		0.9 to 0.5

Recommended centre & edge thickness for US:

Power Range	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 D to +1.00 D	2.2	
+1.25 D to +6.00 D		1.0

**This glass lens blank requires further treatment to be considered impact resistant. The final processor is responsible to render it impact resistant in accordance with 21 CFR 801.410 as required in the US.**

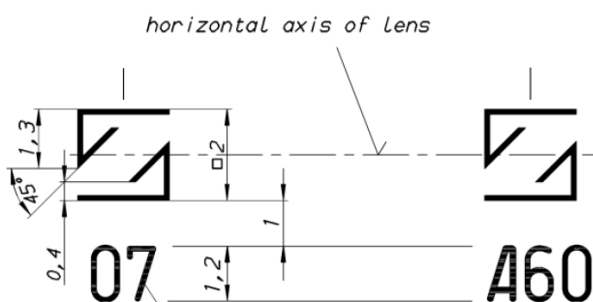
**Product Markings:**

Front Surface:

Semi-Visible Markings

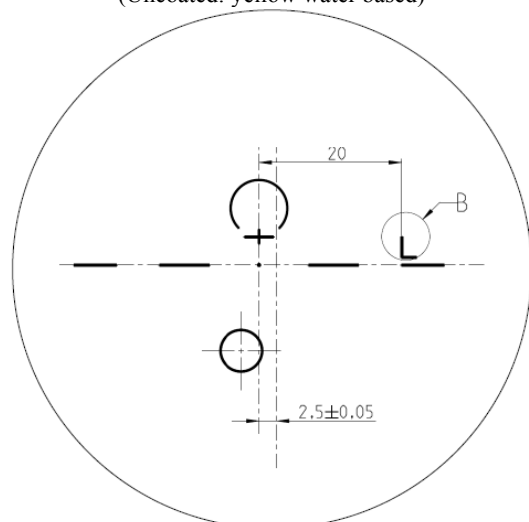
**Position :**

2.5 mm nasal in height of geometrical centre

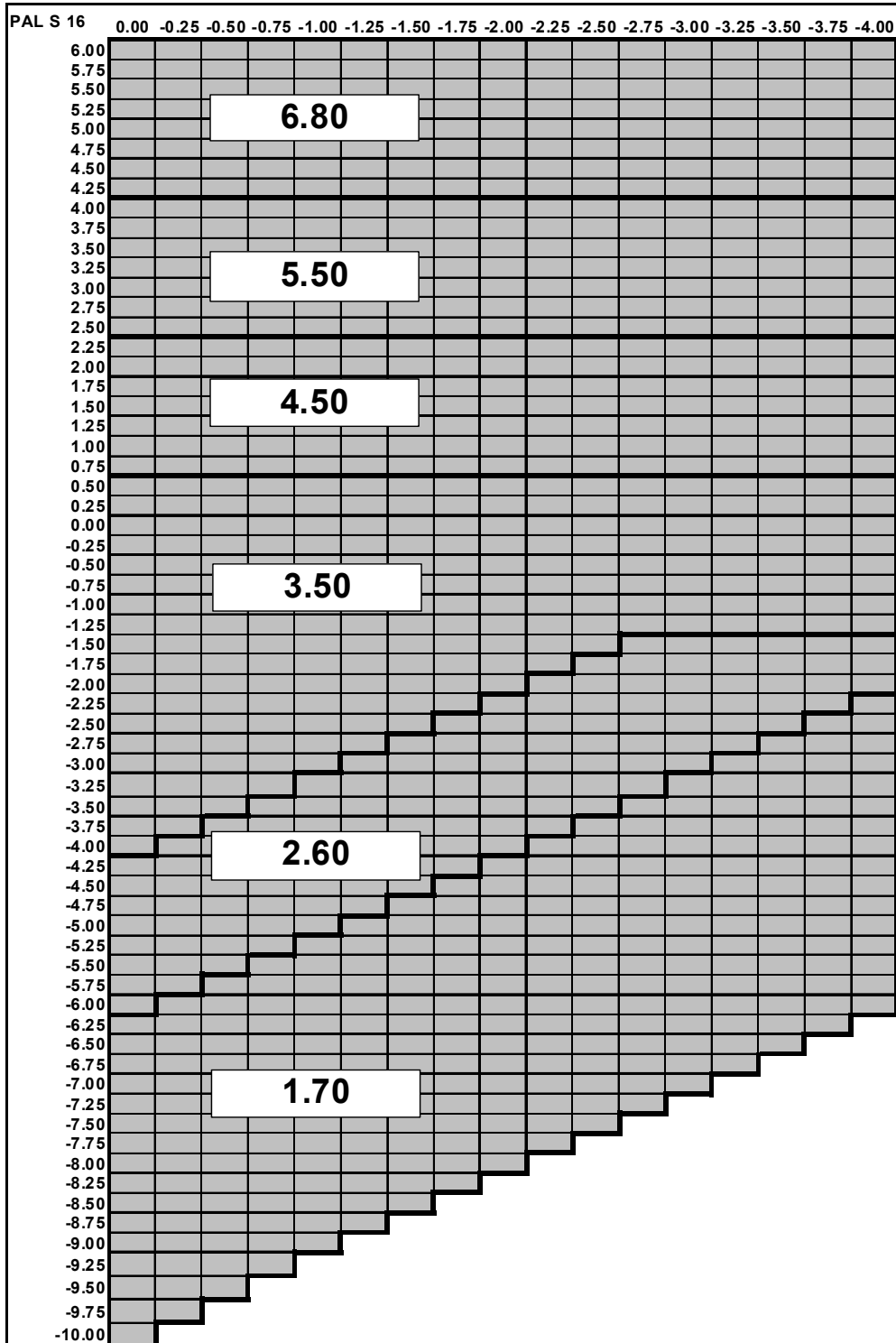


Front Surface: Ink Markings

(Uncoated: yellow water based)



**Recommended Range Chart:**



# PRODUCT FACT SHEET



<b>Product Name</b>	ZEISS Semi-Finished Progressive GT2 1.59 UVProtect
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## 1. Customer Product Codes

Product:	LGC:	LGC Description:	CAT Code:
Coated HA	L7025	ZEISS SF P GT2 159 HA U--	A29
Coated PG	L7034	ZEISS SF P GT2 159 PG U--	A33

## 2. Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
75/80	1.70	1.00 to 3.00	-10.00 to -6.50
75/80	2.60	1.00 to 3.00	-6.25 to -4.25
75/80	3.50	1.00 to 3.00	-4.00 to -2.25
75/80	4.50	1.00 to 3.00	-2.00 to +1.75
75/80	5.60	1.00 to 3.00	+2.00 to +3.75
75/80	6.80	1.00 to 3.00	+4.00 to +6.00

## 3. Material & Coating Specifications:

<b>Type</b>	<b>ZEISS Light Protection 1.59 Polycarbonate</b>
<b>Refractive Index</b>	$n_d = 1.586$ $n_e = 1.59$
<b>Abbe Number</b>	$V_d = 30$ $V_e = 30$
<b>Density</b>	1.20 g/cm <sup>3</sup>
<b>UV Protection (ISO)</b>	Coated : 2.0 mm Centre Thickness UVA : 100 %,    UVB : 100 %
<b>Coating Type</b>	<b>Hart &amp; PG Coated</b>

## 4. Lens Geometry:

Nominal Base (D)	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (mm)	Nominal Edge Thickness at 'A' (mm)
1.70	1.75	302.86	-5.75	7.6	12.8
2.60	2.56	207.03	-5.75	7.6	12.8
3.50	3.48	152.30	-5.75	8.1	12.3
4.50	4.45	119.10	-5.75	8.0	10.6
5.60	5.47	96.89	-8.00	11.2	14.7
6.80	6.86	77.26	-8.00	10.7	12.3

Document Number: Z01004.FS1	Reviewed by: Geoff Riley, 22 Jun 2018
For External Distribution	Page 1 of 2

# PRODUCT FACT SHEET



**Product Name**

ZEISS Semi-Finished Progressive GT2 1.59 UVProtect

**5. Surfacing:** Recommended centre & edge thicknesses for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 to -2.00	1.5	
-1.75 to +2.00	2.0 or *	1.5 *
+2.25 to + 4.00		1.0
+4.25 to + 6.00		1.0

\* Thicknesses are based on whichever is the limiting factor

**6. Product Markings and Recommended Base Curve Selection Chart:**

**Front Surface: Coding**

**Ink Markings:**

**Back Surface Coding:**

Document Number: Z01004.FS1  
For External Distribution

Reviewed by: Geoff Riley, 22 Jun 2018  
Page 2 of 2

# PRODUCT FACT SHEET



PhotoFusion® Lenses by ZEISS

Substrate : **POLYCARBONATE PhotoFusion®**  
Product Name : **ZEISS GT2 PROGRESSIVE**  
Product type : **SEMI-FINISHED BLANKS**  
Reference : Z00311.FS2  
Date : 22 March 2012

Page : 1 of 2

## Product Range:

<b>Colour:</b>	<b>Brown</b>	<b>Grey</b>
<b>CAT Code:</b>	F64	F63

<b>Nominal Diameter (mm)</b>	<b>Nominal Base Curve (D)</b>	<b>Add Power Range (D)</b>	<b>Recommended Rx Range (D)</b>
72/77	1.70	1.00 to 3.00	-10.00 to -6.50
72/77	2.60	1.00 to 3.00	-6.25 to -4.25
72/77	3.50	1.00 to 3.00	-4.00 to -2.25
72/77	4.50	1.00 to 3.00	-2.00 to +1.75
72/77	5.60	1.00 to 3.00	+2.00 to +3.75
72/77	6.80	1.00 to 3.00	+4.00 to +6.00

## Material & Coating Specifications:

<b>Type</b>	<b>Polycarbonate</b>
<b>Refractive Index</b>	$n_d = 1.586$ $n_e = 1.590$
<b>Abbe Number</b>	$v_d = 30$ $v_e = 29$
<b>Density</b>	1.20 g.cm <sup>-3</sup>
<b>UV Protection (ISO)</b>	100% UVA and 100% UVB Coated , Activated : 2.0mm Centre Thickness
<b>Coating Type</b>	<b>Hard Coated</b>

## Blank Information:

<b>Nominal Base</b>	<b>True Front Curve (D) (1.530)</b>	<b>Radii (mm)</b>	<b>Nominal Back Curve (D)</b>	<b>Centre Thickness (±1.0mm)</b>	<b>Nominal Edge Thickness (mm)</b>
1.70	1.75	302.86	-5.75	7.6	12.8
2.60	2.56	207.03	-5.75	7.6	12.8
3.50	3.48	152.30	-5.75	8.1	12.3
4.50	4.45	119.10	-5.75	8.0	10.6
5.60	5.47	96.89	-8.00	11.2	14.7
6.80	6.86	77.26	-8.00	10.7	12.3

**For External Distribution**

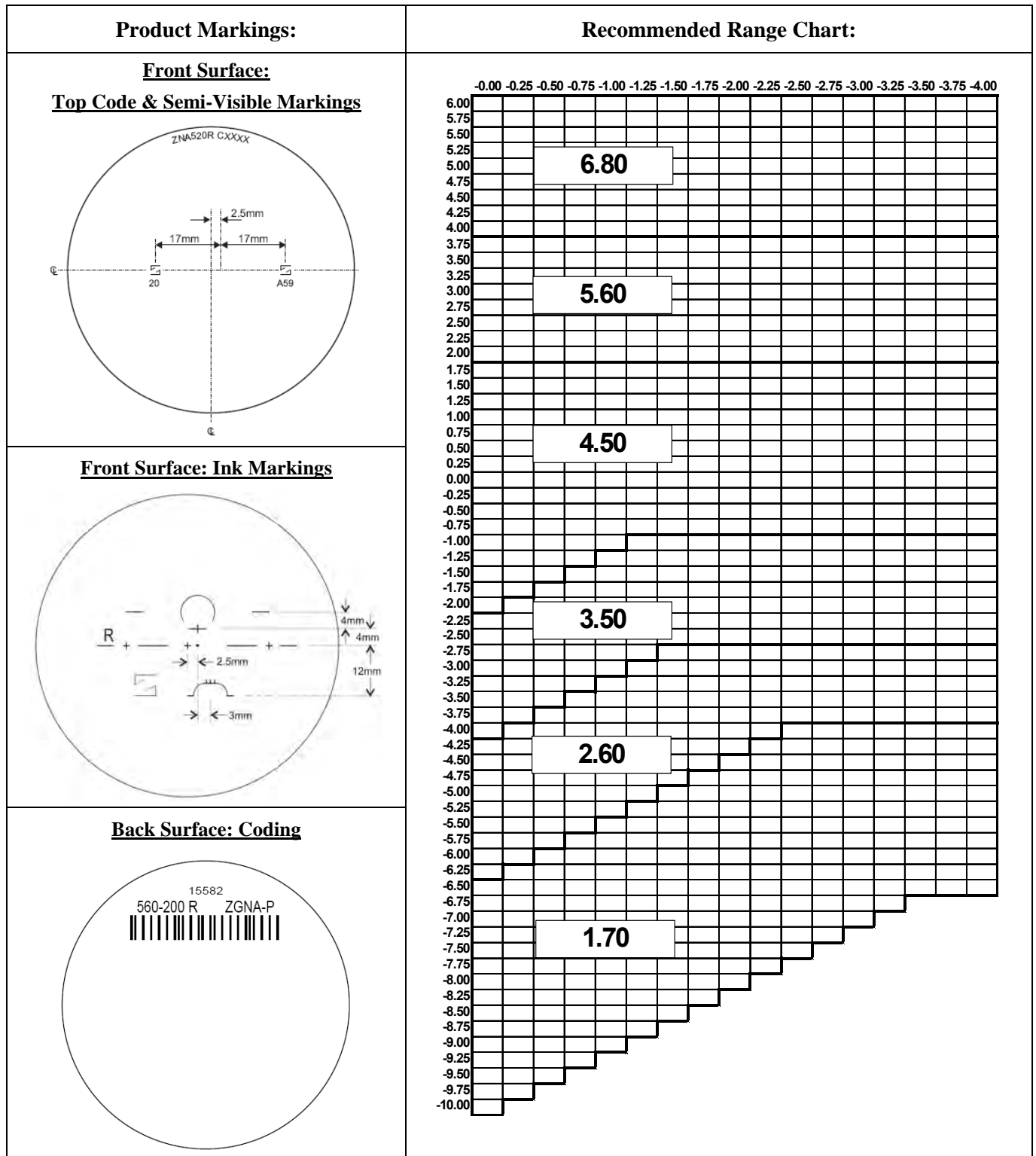
©2012 Carl Zeiss Vision International GmbH  
PhotoFusion is a registered trademark of Carl Zeiss Vision International GmbH.

**Surfacing:**

Recommended centre & edge thicknesses for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 to -2.00	1.5	
-1.75 to +2.00	1.5 *	1.5 *
+2.25 to +4.00		1.0
+4.25 to +6.00		0.5

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



Substrate : **POLYCARBONATE POLARIZED**

Product Name : **GT2 1.59 POLY POLARIZED** Cat Codes: T90-Brown T91-Gray

Product Type : **SEMI-FINISHED BLANKS**

Reference : Z00144.FS1

Date : 18.02.2009 Page : 1 of 3

**Marketing Region:** North America – Coated Product

**Product Range:**

Nominal Diameter	Nominal Base Curve (D)	Add Power Range (D)	Rx Range Recommended (D)
75	1.70	1.00 to 3.00	-10.00 to -6.50
75	2.60	1.00 to 3.00	-6.25 to -4.25
75	3.50	1.00 to 3.00	-4.00 to -2.25
75	4.50	1.00 to 3.00	-2.00 to +1.75
75	5.60	1.00 to 3.00	+2.00 to +3.75
75	6.80	1.00 to 3.00	+4.00 to +6.00

**Material Specification:**

Type	Polycarbonate
<b>Refractive Index</b>	$\eta_d = 1.586$ (Helium 'd' line 587.56nm) $\eta_e = 1.590$ (Mercury 'e' line 546.07nm)
<b>Abbe Number</b>	$v_d = 30$ $v_e = 29$
<b>Density</b>	$1.20 \text{ g.cm}^{-3}$
<b>Yellowness Index</b>	Uncoated : 1.5 mm Centre Thickness : $\leq 1.0$ (All Instruments)
<b>UV Transmittance</b>	1.5 mm Centre Thickness <2%T from 380 nm to 280 nm

**Coating Specification:**

Site	Type
Younger Optics	Hard Coated (Younger Resin, non-tintable) <span style="float: right;">Front Side</span>

**For External Distribution**



**Blank Geometry:** (As measured in 1.530 R.I.)

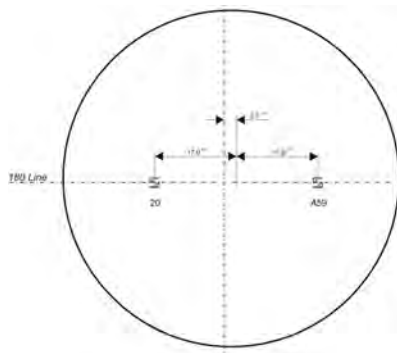
Nominal Base	True Front Curve (D) (1.530)	Sag data @ 50 mm	TFC Radii (mm)	Nominal Back Curve (D)	Center Thickness (mm)	Nominal Edge Thickness at 'A' (mm)
1.70	1.72	1.02	308.14	-4.24	10.0	13.3
2.60	2.57	1.52	206.23	-5.75	9.0	12.8
3.50	3.48	2.07	152.30	-5.75	10.4	12.8
4.50	4.47	2.67	118.57	-5.75	9.1	10.2
5.60	5.46	3.27	97.07	-6.15	13.3	13.3
6.80	6.85	4.15	77.37	-7.60	10.6	11.6

Note 1: Blank thickness is determined by **centre thickness**.

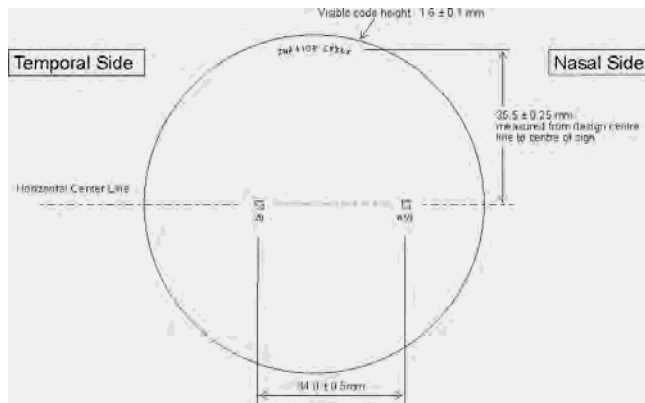
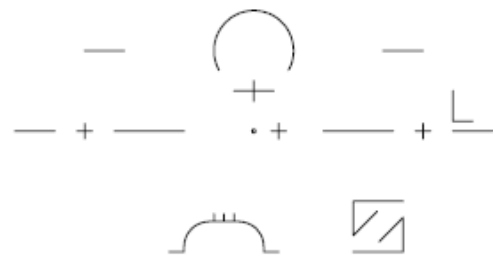
Note 2: Blanks having visually uneven edge thickness shall be checked for prism.

**Product Markings:**

Front Surface:  
Semi-Visible Markings



Front Surface: Ink Markings  
(Coated: yellow solvent based)

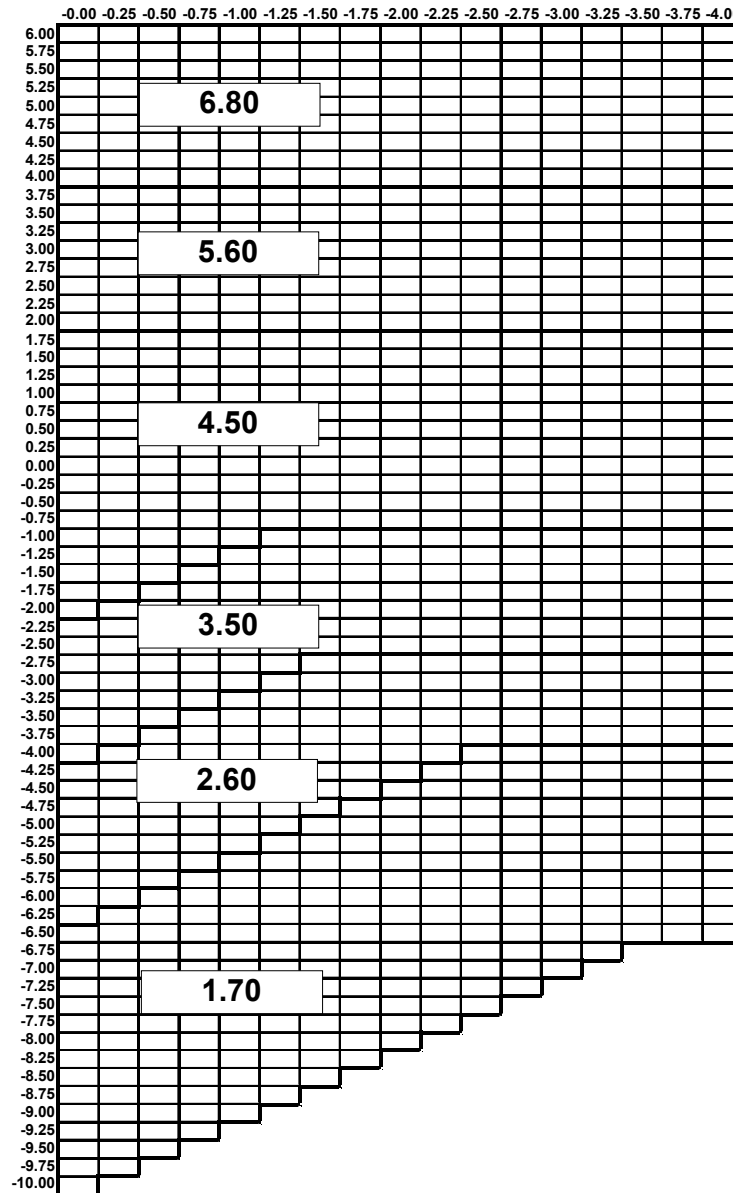


**Surfacing:**

Recommended centre & edge thickness for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 to -8.25	1.5	
-8.00 to -7.00	1.4	
-6.75 to -1.25	1.3	
-1.00 to +0.00	1.4 to 2.0	
+0.25 to +6.00		1.9 to 0.6

**Recommended Range Chart:**



Substrate : **HARD RESIN**

Product Name : **GT2** Cat Code: 498

Product Type : **PROGRESSIVE SEMI-FINISHED BLANKS**

Reference : Z00002.FS1

Date : 12.11.2008 Page : 1 of 3

**Marketing Regions:** North America – Coated Product

**Product Range:**

Nominal Diameter	Nominal Base Curve (D)	Add Power Range (D)	Rx Range Recommended (D)
72	2.00	0.75 to 3.50	-10.00 to -6.50
72	3.00	0.75 to 3.50	-6.25 to -4.25
72	4.00	0.75 to 3.50	-4.00 to -2.25
72	5.00	0.75 to 3.50	-2.00 to +1.75
72	6.10	0.75 to 3.50	+2.00 to +3.75
72	7.50	0.75 to 3.50	+4.00 to +6.00

**Material Specifications:**

<b>Type</b>	<b>CR-39</b>	
<b>Refractive Index</b>	$\eta_d = 1.499$ (Helium 'd' line 587.56nm) $\eta_e = 1.500$ (Mercury 'e' line 546.07nm)	
<b>Abbe Number</b>	$v_d = 58$ $v_e = 56$	
<b>Density</b>	1.32 g.cm <sup>-3</sup>	
<b>Transmittance</b> <sup>(1)</sup>	$\geq 90.0\%$	Measured on any Spectrophotometer with traceable calibration.
<b>Yellowness Index</b> <sup>(1)</sup>	Coated, $0.0 \leq YI_E \leq 1.0$ Uncoated, $0.0 \leq YI_E \leq 0.8$	Measured on any Spectrophotometer with traceable calibration (Referenced to ASTM D 1925)
<b>Haze</b> <sup>(1)</sup>	Uncoated : $\leq 0.5$ Coated : $\leq 0.6$	Measured on any transmittance instrument which directly correlates to the R&D Australia HunterLab UltraScan XE.
<b>UV Transmittance</b>	$<2\%T$ from 350 to 280 nm	

**Coating Specifications:**

Commercial name	Commercial Resin Code	Coating Thickness ( $\mu\text{m}$ )
Ultra-Tough <sup>®</sup> (Non tintable)	SDC 1193	1.1 to 1.5

## For External Distribution

**Surfacing:**

Recommended centre &amp; edge thickness for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-10.00 to -0.75	1.8	
-0.50 to +0.00	1.9 to 2.0	
+0.25 to +6.00		1.9 to 0.6

**Blank Geometry:**

(As measured in 1.530 R.I)

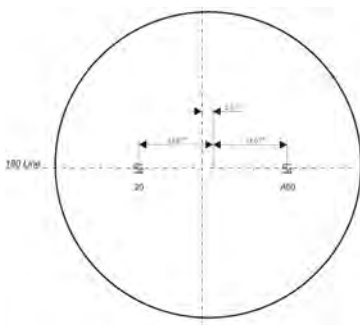
Nominal Base	True Front Curve (D) (1.530)	TFC Radii (mm)	Nominal Back Curve (D)	Center Thickness (mm)	Nominal Edge Thickness at 'A' (mm)
2.00	1.96	270.41	-3.0	16.0 +/- 1mm	17.0
3.00	2.96	179.05	-3.0	17.5 +/- 1mm	17.0
4.00	3.95	134.18	-6.0	14.7 +/- 1mm	16.0
5.00	4.94	107.29	-6.0	15.0 +/- 1mm	15.5
6.10	6.07	87.31	-6.0	13.2 +/- 1mm	12.5
7.50	7.23	73.31	-6.0	13.9 +/- 1mm	11.5

Note 1 : Blank thickness is determined by **centre thickness**.

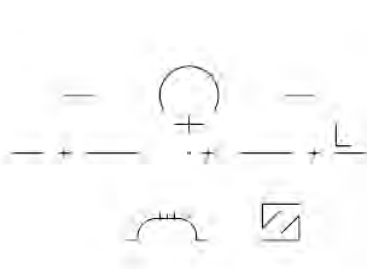
Note 2 : Blanks having visually uneven edge thickness shall be checked for prism.

**Product Markings:**

Front Surface:  
Semi-Visible Markings



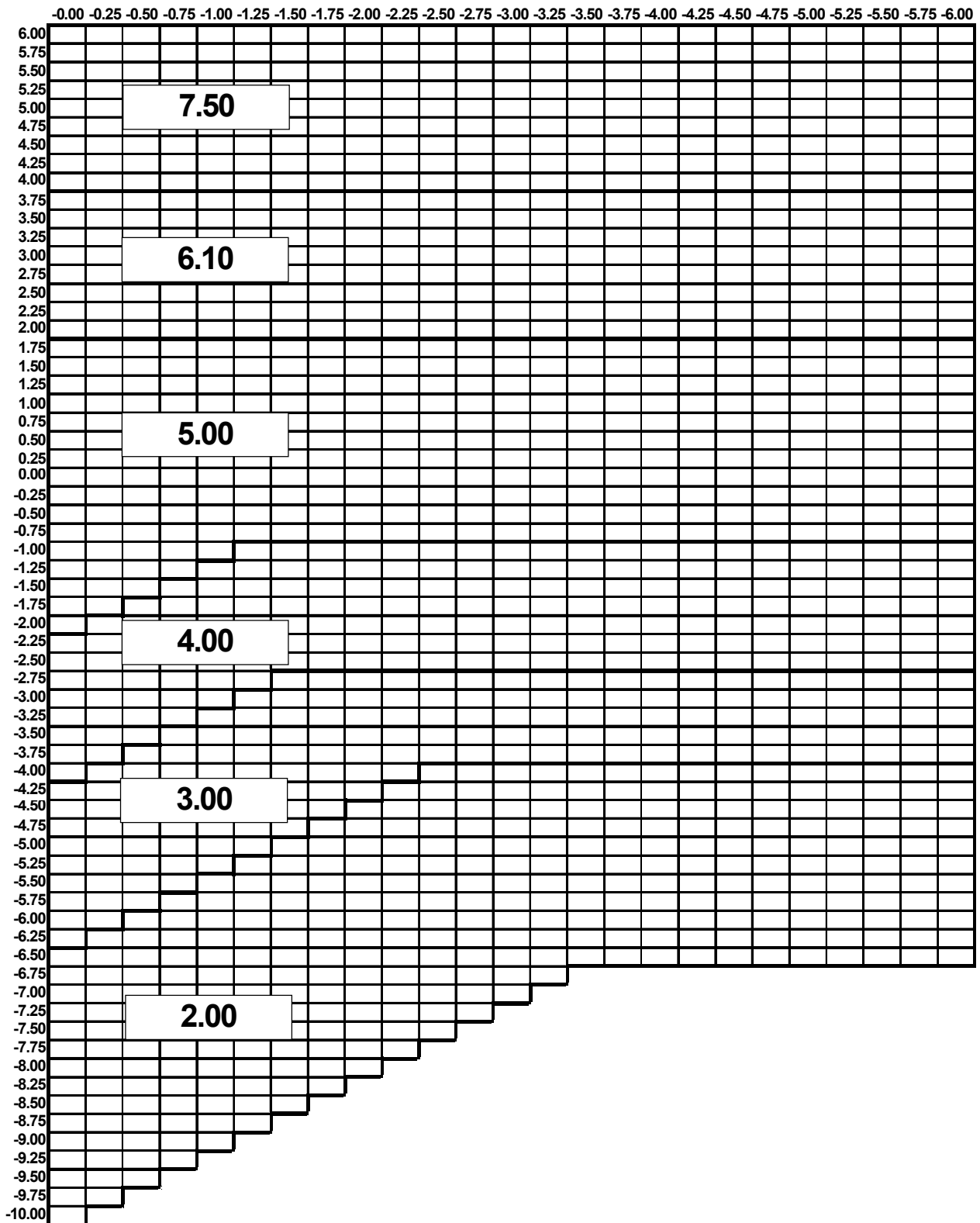
Front Surface: Ink Markings  
(Coated: yellow solvent based)



Back Surface : Coding



**Recommended Range Chart:**



# PRODUCT FACT SHEET



PhotoFusion® Lenses by ZEISS

Substrate : **HARD RESIN PhotoFusion®**  
Product Name : **ZEISS GT2 PROGRESSIVE**  
Product type : **SEMI-FINISHED BLANKS**  
Reference : Z00307.FS3  
Date : 22 March 2012

Page : 1 of 2

## Product Range:

<b>Colour:</b>	<b>Brown</b>	<b>Grey</b>
<b>CAT Code:</b>	F76	F75

<b>Nominal Diameter (mm)</b>	<b>Nominal Base Curve (D)</b>	<b>Add Power Range (D)</b>	<b>Recommended Rx Range (D)</b>
72/77	2.00	1.00 to 3.00	-10.00 to -6.50
72/77	3.00	1.00 to 3.00	-6.25 to -4.25
72/77	4.00	1.00 to 3.00	-4.00 to -2.25
72/77	5.00	1.00 to 3.00	-2.00 to +1.75
72/77	6.10	1.00 to 3.00	+2.00 to +3.75
72/77	7.50	1.00 to 3.00	+4.00 to +6.00

## Material & Coating Specifications:

<b>Type</b>	<b>CR-39®</b>
<b>Refractive Index</b>	$n_d = 1.499$ $n_e = 1.500$
<b>Abbe Number</b>	$v_d = 58$ $v_e = 56$
<b>Density</b>	1.32 g.cm <sup>-3</sup>
<b>UV Protection (ISO)</b>	100% UVA and 100% UVB Coated , Activated : 2.0mm Centre Thickness
<b>Coating Type</b>	<b>Hard Coated</b>

## Blank Information:

<b>Nominal Base</b>	<b>True Front Curve (D) (1.530)</b>	<b>Radii (mm)</b>	<b>Nominal Back Curve (D)</b>	<b>Centre Thickness (±1.0mm)</b>	<b>Nominal Edge Thickness (mm)</b>
2.00	1.96	270.41	-3.00	16.0	17.0
3.00	2.96	179.05	-3.00	17.5	17.0
4.00	3.95	134.18	-6.00	14.7	16.0
5.00	4.92	107.72	-6.00	15.0	15.5
6.10	6.06	87.46	-6.00	13.2	12.5
7.50	7.26	73.00	-6.00	13.9	11.5

## For External Distribution

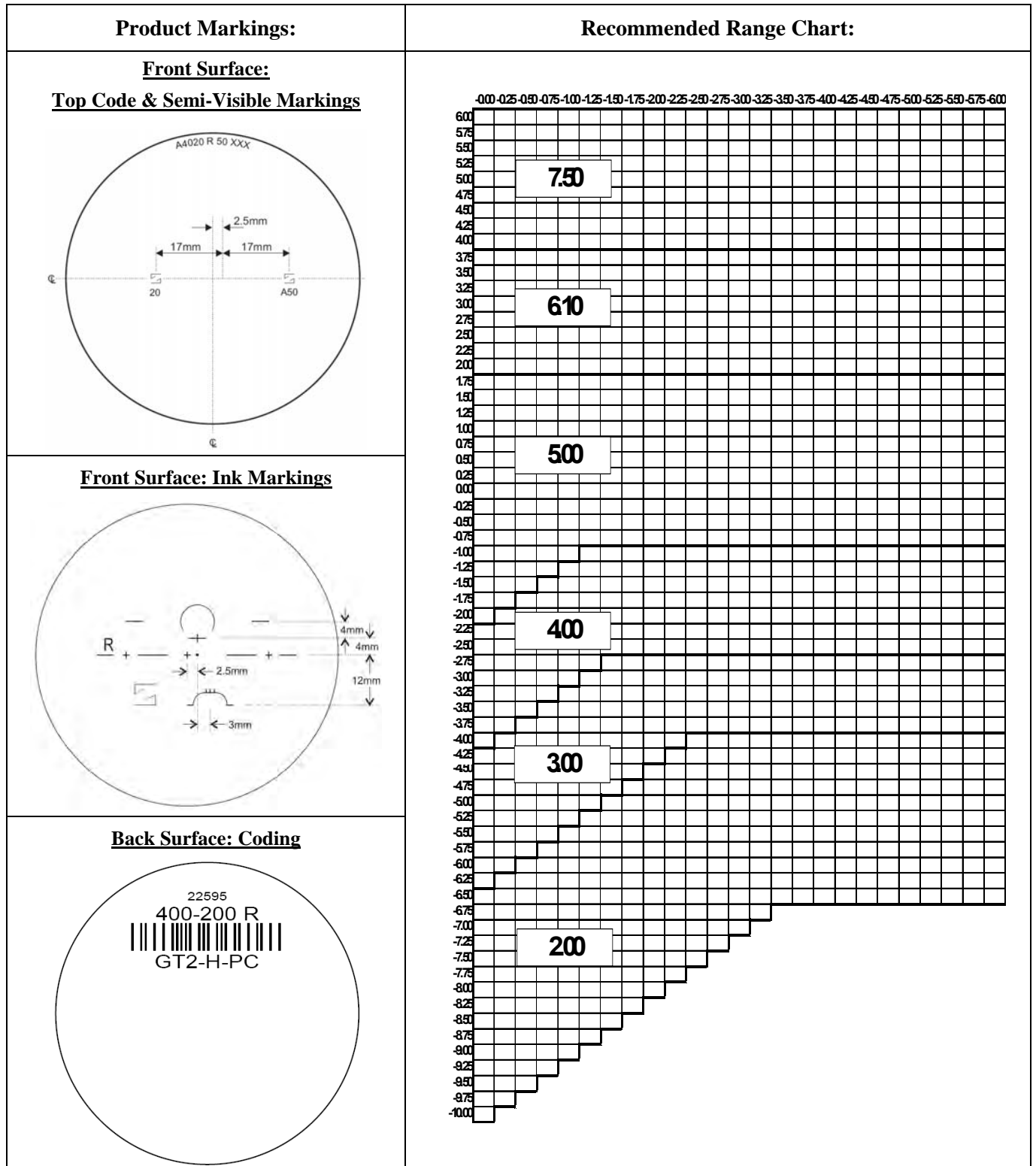
©2012 Carl Zeiss Vision International GmbH  
PhotoFusion is a registered trademark of Carl Zeiss Vision International GmbH.  
CR-39 is a registered trademark of PPG Industries Inc.

**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)
-10.00 to -2.00	2.0	1.5	
-1.75 to +2.00	2.0 or *	2.0 or *	1.0 *
+2.25 to +6.00			1.0

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



Substrate : **HARD RESIN**

Product Name : **GT2 1.5 POLARIZED GRAY** Cat Code: 799

Product Type : **PROGRESSIVE SEMI-FINISHED BLANKS**

Reference : Z00091.FS1

Date : 12.01.2009 Page : 1 of 3

**Marketing Regions:** North America – Coated Product

**Product Range:**

Nominal Diameter	Nominal Base Curve (D)	Add Power Range (D)	Rx Range Recommended (D)
80	2.00	0.75 to 3.50	-10.00 to -6.50
80	3.00	0.75 to 3.50	-6.25 to -4.25
80	4.00	0.75 to 3.50	-4.00 to -2.25
80	5.00	0.75 to 3.50	-2.00 to +1.75
80	6.10	0.75 to 3.50	+2.00 to +3.75
80	7.50	0.75 to 3.50	+4.00 to +6.00

**Material Specifications:**

<b>Type</b>	<b>CR-39, Polarized Gray 3</b>
<b>Refractive Index</b>	$\eta_d = 1.499$ (Helium 'd' line 587.56nm) $\eta_e = 1.500$ (Mercury 'e' line 546.07nm)
<b>Abbe Number</b>	$v_d = 58$ $v_e = 56$
<b>Density</b>	1.32 g.cm <sup>-3</sup>

**Coating Specifications:**

Site	Type	
Younger Optics	Hard Coated (Younger Resin, non-tintable)	Front Side

**Surfacing:**

Due to the design, specialized surfacing is required.

Meridian of Most Negative Power (D)	Centre Thickness (mm)	Edge Thickness (mm)
Plano / Minus	1.6 ± 0.2	≥ 1.4 <sup>(1)</sup>
Plus	≥ 1.6	≥ 1.4

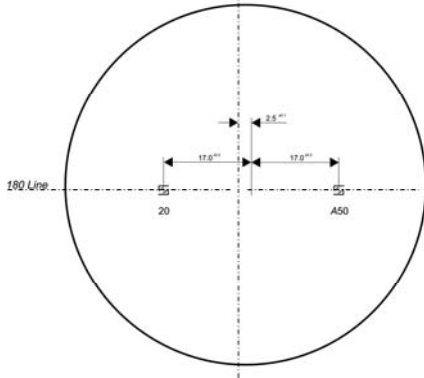
Note 1: As a guideline, a carrier surface is applied when the edge thickness on the horizontal axis exceeds 7mm.

**For External Distribution**

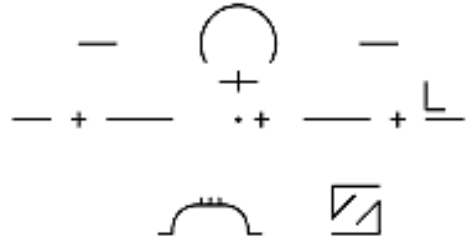


**Product Markings:**

Front Surface:  
Semi-Visible Markings



Front Surface: Ink Markings  
(Coated: yellow solvent based)



**Recommended Range Chart:**

