



SYNCHRONY - Fact Sheets

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SYNCHRONY

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Substrate	:	1.67 (MR-10)	
Product Name	:	SYNCHRONY™ PROGRESSIVE	Cat Code: 470
Product Type	:	SEMI-FINISHED BLANKS	
Reference	:	F5111214_1	
Date	:	1 November 2007	Page : 1 of 3

Product Range:

Nominal Diameter	Nominal Base Curve (D)	Add Power Range (D)	Rx Range Recommended (D)
73 mm	1.25	1.00 to 3.50	-9.00 to -5.25
78 mm	2.75	1.00 to 3.50	-5.00 to -2.00
78 mm	4.00	1.00 to 3.50	-1.75 to +1.25
78 mm	5.75	1.00 to 3.50	+1.50 to +3.75
73 mm	6.50	1.00 to 3.50	+4.00 to +6.00
73 mm	7.50	1.00 to 3.50	+6.25 to +8.00

Material & Coating Specifications:

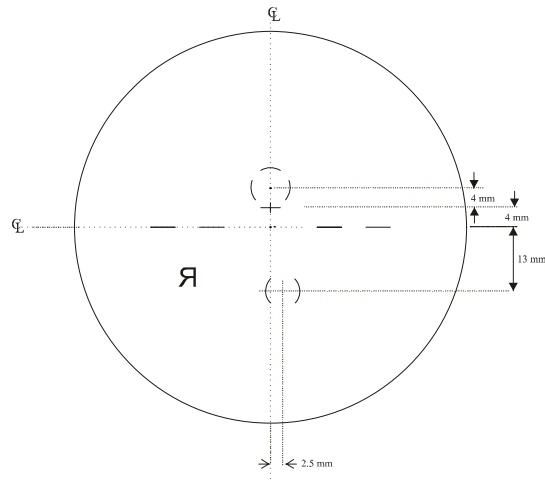
Type	MR-10™
Refractive Index	$\eta_d = 1.661$ (Helium 'd' line 587.56nm) $\eta_e = 1.666$ (Mercury 'e' line 546.07nm)
Abbe Number	$v_d = 32$ $v_e = 32$
Density	1.37 g.cm ⁻³
UV Protection	100% UVA and UVB (from 380nm to 280nm as per ISO 8980-3-2003, ANSI Z80-1-1999)
Coating Type	Ultra-Tough™

Blank Information:

Nominal Base	True Front Curve (D) (1.530)	True Front Curve (D) (1.66)	Radii (mm)	Distance Curve Sag @ 50mm (mm)	Nominal Back Curve (D)	Centre Thickness (mm) (± 1.0)	Nominal Edge Thickness at Distance Edge (mm)*	Nominal Packaged Weight (g)
1.25	1.23	1.53	430.89	0.726	-6.00	8.5	15	76
2.75	2.76	3.44	192.03	1.634	-6.00	7.5	12.5	74
4.00	4.02	5.01	131.84	2.392	-6.00	6.5	10	61
5.75	5.79	7.21	91.54	3.480	-6.00	7.5	8	59
6.50	6.54	8.14	81.04	3.953	-6.00	8.5	8	56
7.50	7.54	9.39	70.29	4.596	-6.00	9.5	8	58

* Measured at the distance edge of the blank.

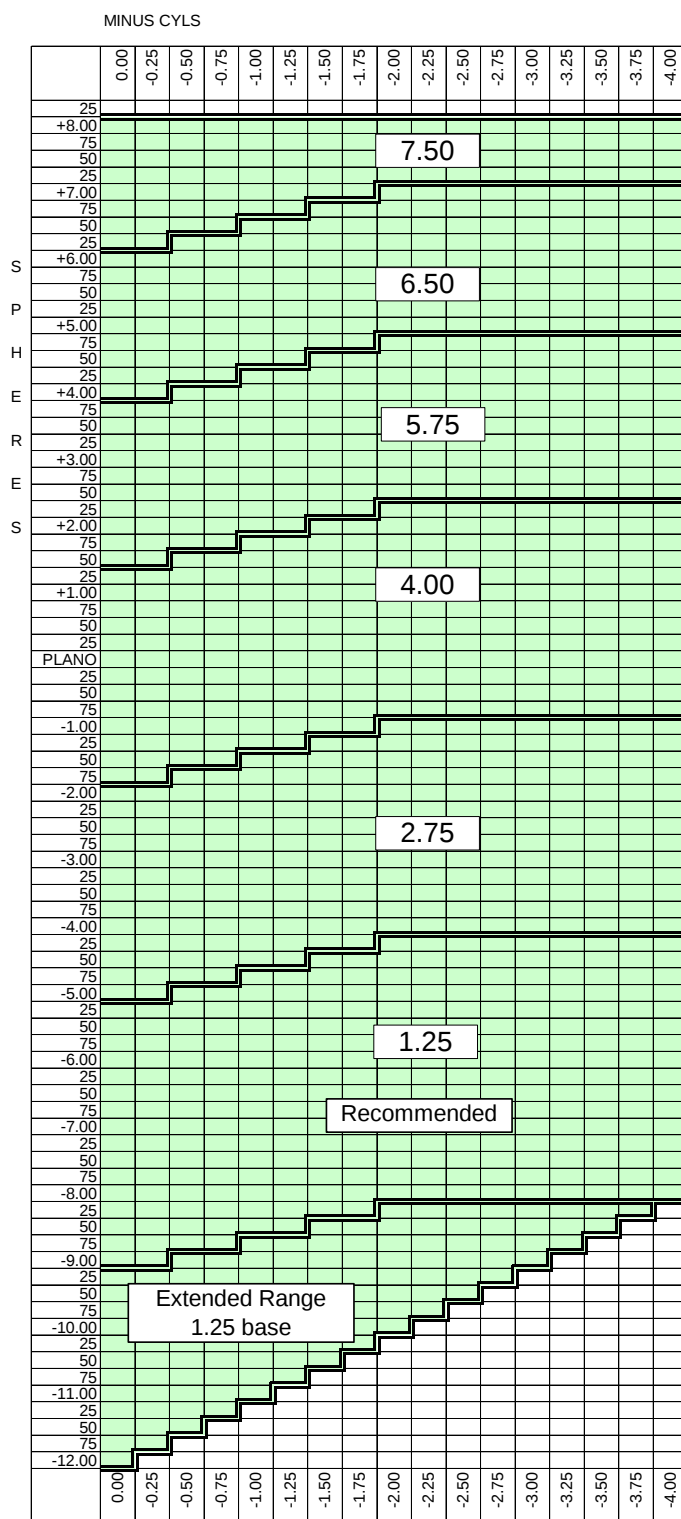
For External Distribution

Product Markings:Front Surface:
Semi-Visible MarkingsFront Surface: Ink Markings
(Coated: Yellow solvent based)
(Uncoated: Yellow water based)Back Surface: Coding**Surfacing:**

Recommended centre & edge thicknesses for all regions:

Power Range	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-9.00 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 (MR-10) PhotoFusion®**

Product Name : **SYNCHRONY™ PROGRESSIVE**

Product Type : **SEMI-FINISHED BLANKS**

Reference : 00246.FS2

Date : 21 March 2012

Page : 1 of 2

Product Range:

	Grey
CAT Code	F60

Nominal Diameter	Nominal Base Curve (D)	Add Power Range (D)	Rx Range Recommended (D)
73 mm	1.25	1.00 to 3.50	-9.00 to -5.25
78 mm	2.75	1.00 to 3.50	-5.00 to -2.00
78 mm	4.00	1.00 to 3.50	-1.75 to +1.25
78 mm	5.75	1.00 to 3.50	+1.50 to +3.75
73 mm	6.50	1.00 to 3.50	+4.00 to +6.00
73 mm	7.50	1.00 to 3.50	+6.25 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 100% UVB Coated , Activated : 2.0mm Centre Thickness
Coating Type	Hard Coated

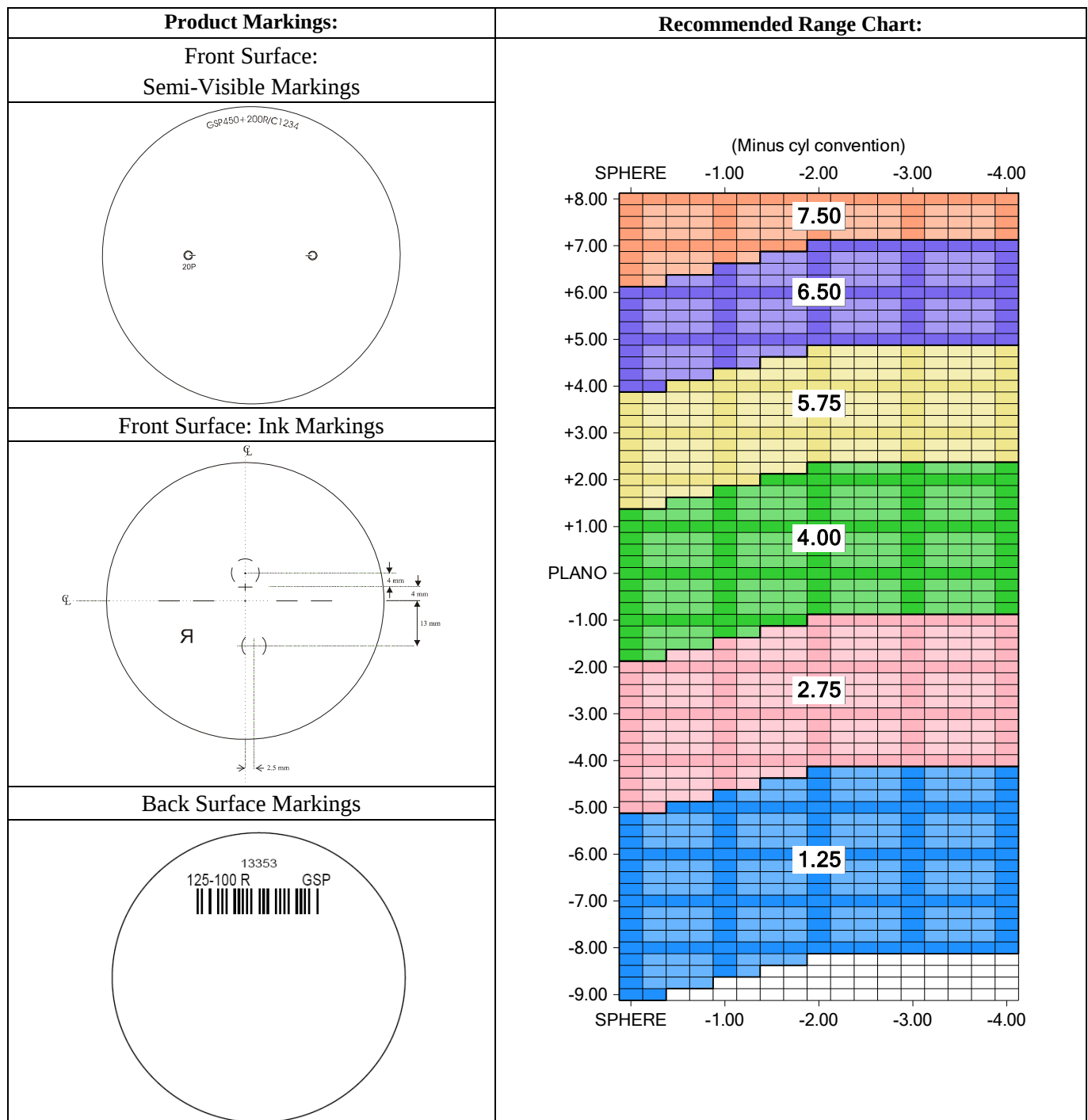
Blank Information: (As measured in 1.530 R.I)

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (mm)	Nominal Edge Thickness at 'A' (mm)	Nominal Packaged Weight (g) (Based on 2.00 add)
1.25	1.23	430.90	-6.00	8.5 +/- 1mm	15	76
2.75	2.73	194.14	-6.00	7.5 +/- 1mm	12.5	74
4.00	4.00	132.50	-6.00	6.5 +/- 1mm	10	61
5.75	5.73	92.49	-6.00	7.5 +/- 1mm	8	59
6.50	6.50	81.54	-6.00	8.5 +/- 1mm	8	56
7.50	7.53	70.39	-6.00	9.5 +/- 1mm	8	58

For External Distribution

Surfacing: Recommended centre & edge thickness for all regions: **Thicknesses are based on whichever is the limiting factor.*

Power Range	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-9.00 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





PRODUCT FACT SHEET

Substrate	:	1.67 TRANSITIONS® SIGNATURE VII		
Product Name	:	SYNCHRONY PROGRESSIVE		
Product type	:	SEMI-FINISHED BLANKS		
Reference	:	00432.FS1		
Date	:	16 December 2013	Page	: 1 of 3

Product Range:

Product:	Gray HC
LGC:	L6437
Cat Code:	V80

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
73	1.25	1.00 to 3.50	-9.00 to -5.25
78	2.75	1.00 to 3.50	-5.00 to -2.00
78	4.00	1.00 to 3.50	-1.75 to +1.25
78	5.75	1.00 to 3.50	+1.50 to +3.75
73	6.50	1.00 to 3.50	+4.00 to +6.00
73	7.50	1.00 to 3.50	+6.25 to +8.00

Material & Coating Specifications:

Type	MR-10®
Refractive Index	$n_d = 1.661$ $n_e = 1.666$
Abbe Number	$v_d = 32$ $v_e = 32$
Density	1.37 g.cm^{-3}
UV Protection (ISO)	Activated: 2.0mm Centre Thickness. UVA: 100 %, UVB: 100 %
Coating Type	Hard 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	:	00432.FS1			
Date	:	16 December 2013	Page	:	2 of 3

Blank Information:

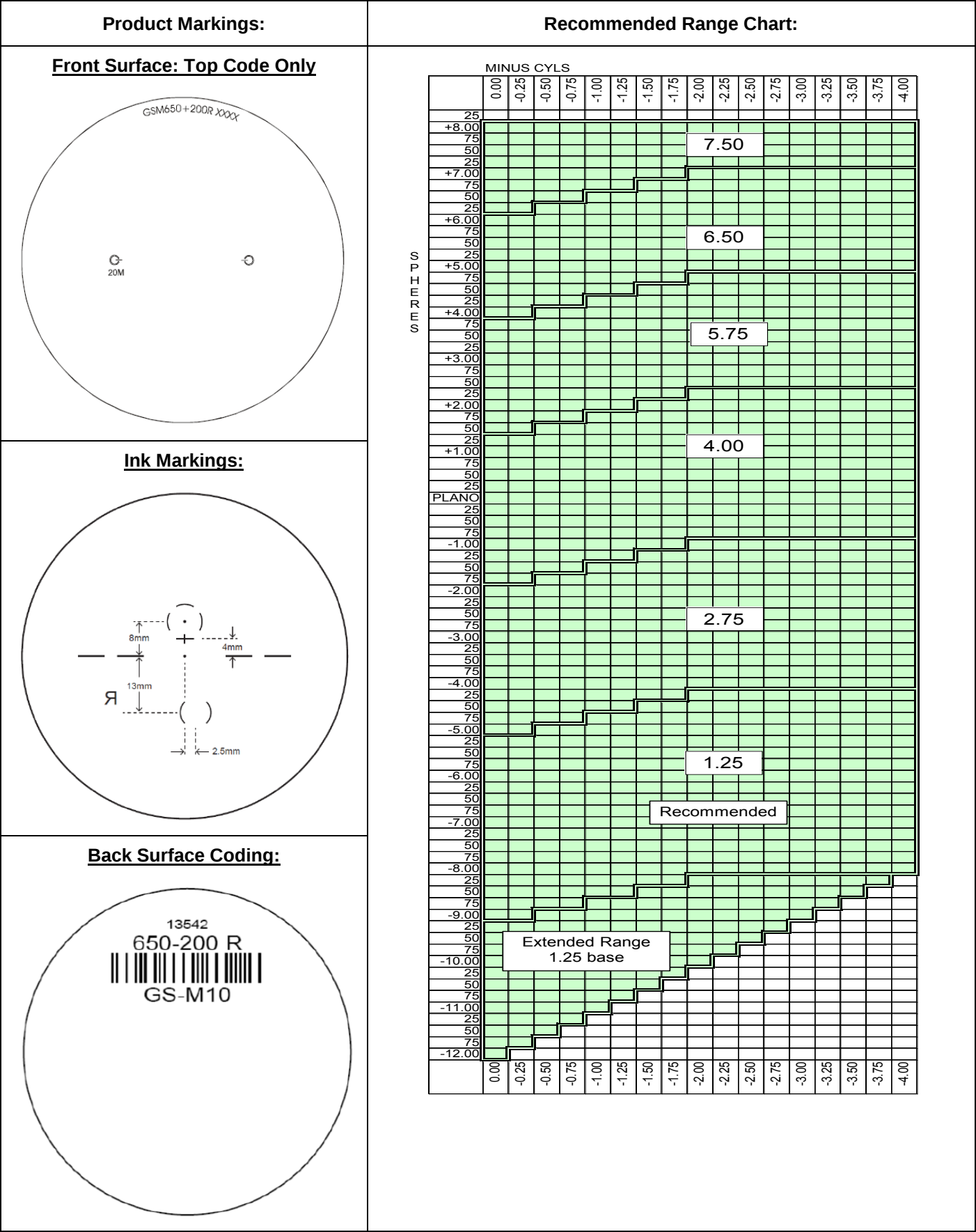
Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (mm) ($\pm 1.0\text{mm}$)	Nominal Edge Thickness at 'A' (mm)
1.25	1.22	434.43	-6.00	8.5	15
2.75	2.75	192.73	-6.00	7.5	12.5
4.00	4.00	132.50	-6.00	6.5	10
5.75	5.78	91.70	-6.00	7.5	8
6.50	6.53	81.16	-6.00	8.5	8
7.50	7.54	70.29	-6.00	9.5	8

Surfacing:

Recommended centre & edge thicknesses for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-9.00 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 Fact Sheet

Substrate	: POLYCARBONATE	
Product Name	: SYNCHRONY™ PROGRESSIVE	Cat Code: 764
Product Type	: SEMI-FINISHED BLANKS	
Reference	: 0102288.FS2	
Date	: 15 December 2011	Page : 1 of 2

Product Range:

Nominal Diameter	Nominal Base Curve (D)	Add Power Range (D)	Rx Range Recommended (D)
75 mm	1.25	1.00 to 3.50	-9.00 to -5.25
75 mm	3.25	1.00 to 3.50	-5.00 to -2.00
75 mm	4.50	1.00 to 3.50	-1.75 to +1.25
75 mm	6.25	1.00 to 3.50	+1.50 to +3.75
75 mm	7.00	1.00 to 3.50	+4.00 to +6.00

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)	UVA : 100 % UVB : 100 % (Coated : 2.0 mm Centre Thickness) (ISO 8980-3-2003, ANSI Z80-1-1999)		
Coating Type	CAT code: 764	CAT code: R81	CAT code: R96
	Ultra-Tough™	Perma-Gard™	Ultra-Tough™ (Acrypol)

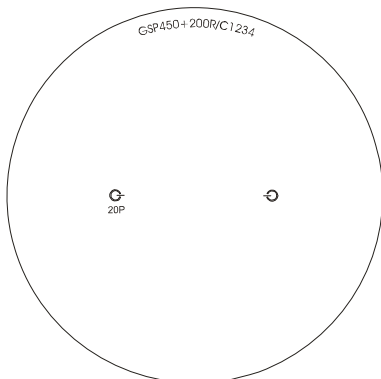
Blank Information: * Measured at the distance edge of the blank.

Nominal Base	True Front Curve (D) (1.530)	True Front Curve (D) (1.586)	Radii (mm)	Nominal Back Curve (D) (1.530)	Centre Thickness ± 1.0 (mm)	Nominal Edge Thickness (mm)*	Nominal Packaged weight (g)
1.25	1.28	1.42	414.06	-5.75	11.6	17.8	83
3.25	3.22	3.56	164.60	-5.75	10.6	14.1	70
4.50	4.51	4.99	117.52	-5.75	8.2	10.0	53
6.25	6.22	6.88	85.21	-5.75	10.4	9.8	58
7.00	7.00	7.74	75.71	-8.00	8.9	11.0	56

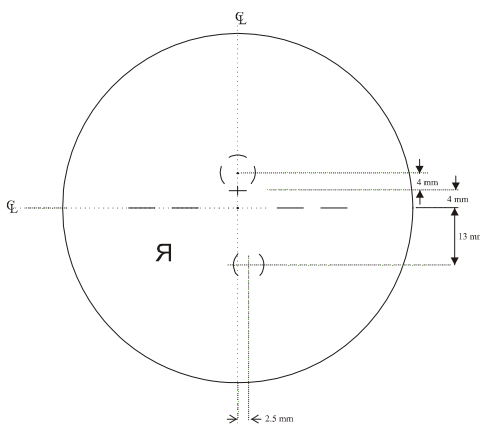
For External Distribution

Product Markings:

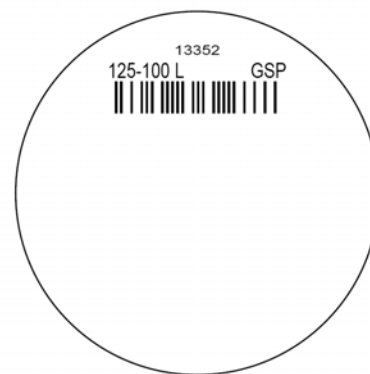
Front Surface: RE
Semi-Visible Markings



Front Surface: RE Ink Markings
(Yellow, solvent based)



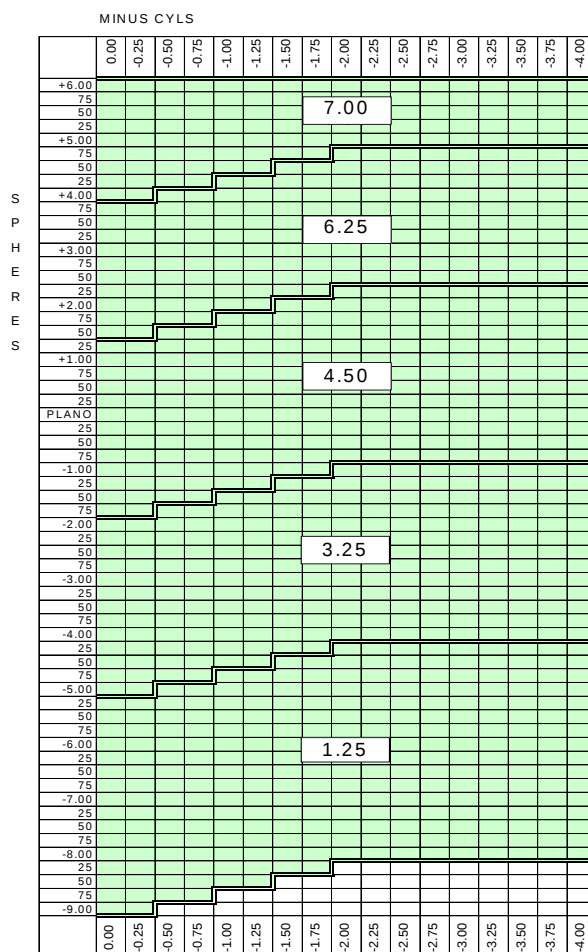
Back Surface: Visible Markings



Surfacing:

Recommended Centre & Edge Thicknesses (* - based on whichever is the limiting factor)

Power Range	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-9.00 to -2.00 D	1.5	
-1.75 to +2.00 D	1.5*	1.5*
+2.25 to +4.00 D		1.0
+4.25 to +6.00 D		0.5





PRODUCT FACT SHEET

Substrate : **POLYCARBONATE PhotoFusion®**

Product Name : **SYNCHRONY™ PROGRESSIVE**

Product Type : **SEMI-FINISHED BLANKS**

Reference : 00244.FS2

Date : 21 March 2012

Page : 1 of 2

Product Range:

	Grey
CAT Code	F59

Nominal Diameter	Nominal Base Curve (D)	Add Power Range (D)	Rx Range Recommended (D)
72 mm	1.25	1.00 to 3.00	-9.00 to -5.25
72 mm	3.25	1.00 to 3.00	-5.00 to -2.00
72 mm	4.50	1.00 to 3.00	-1.75 to +1.25
72 mm	6.25	1.00 to 3.00	+1.50 to +3.75
72 mm	7.00	1.00 to 3.00	+4.00 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%: Activated (Coated 2.0 mm Centre Thickness)
Coating	Hard Coated

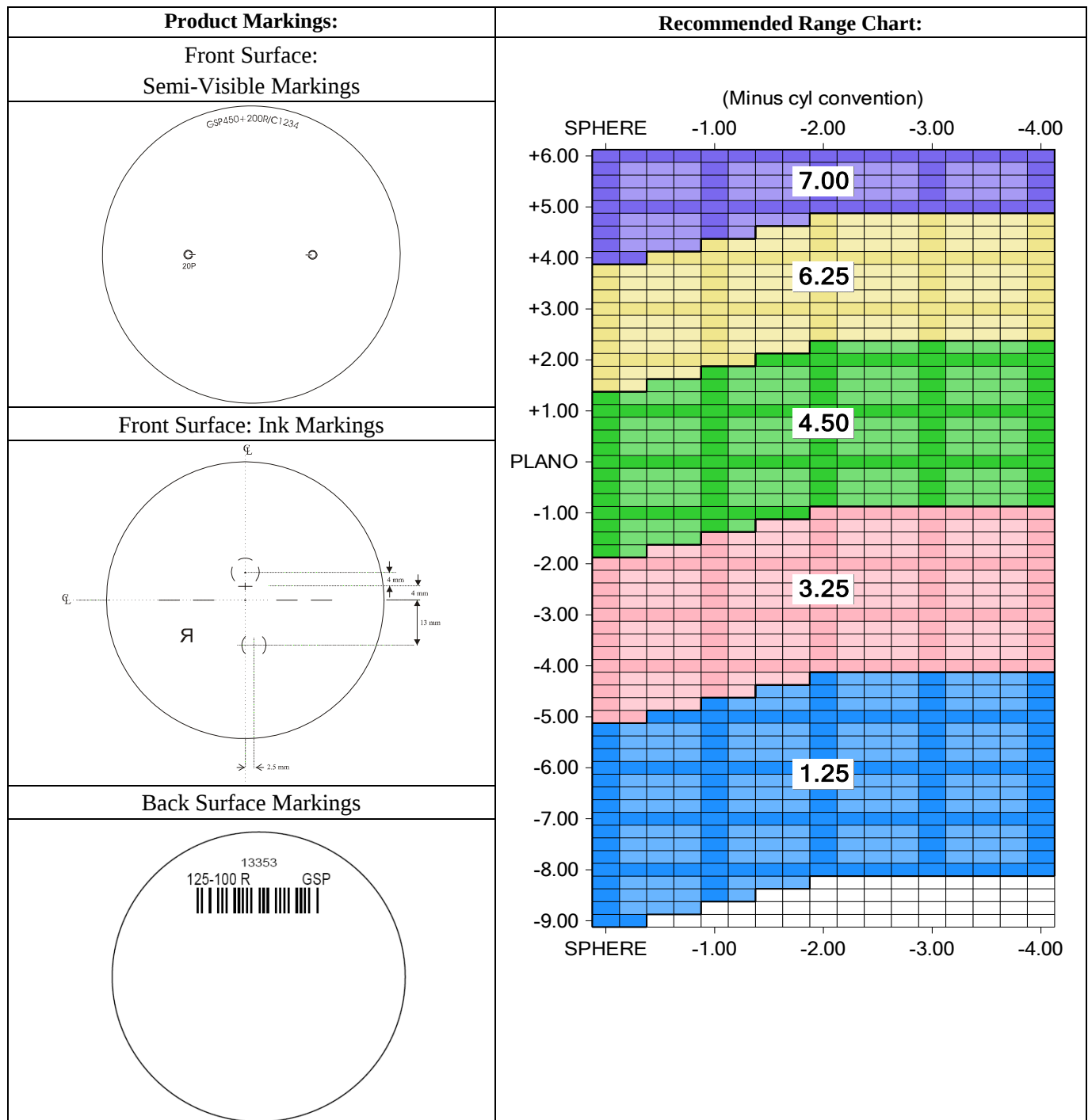
Blank Information: (As measured in 1.530 R.I)

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (mm) ^{Note 1}	Nominal Edge Thickness (mm) ^{Note 2}	Nominal Packaged Weight (g)
1.25	1.28	414.06	-5.75	11.6 ± 1.0	17.3	80
3.25	3.26	162.58	-5.75	10.6 ± 1.0	13.8	70
4.50	4.49	118.04	-5.75	8.2 ± 1.0	9.8	54
6.25	6.25	84.80	-5.75	10.4 ± 1.0	9.8	59
7.00	7.01	75.61	-8.00	8.9 ± 1.0	10.8	57

For External Distribution

Surfacing: Recommended centre & edge thickness for all regions: **Thicknesses are based on whichever is the limiting factor.*

Power Range	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-9.00 D to -2.00 D	1.5	
-1.75 D to +1.25 D	1.5*	1.5*
+1.50 D to +3.75 D		1.0
+4.00 D to +6.00 D		0.5





PRODUCT FACT SHEET

Substrate	:	POLYCARBONATE TRANSITIONS® SIGNATURE VII			
Product Name	:	SYNCHRONY PROGRESSIVE			
Product type	:	SEMI-FINISHED BLANKS			
Reference	:	00415.FS1			
Date	:	17 December 2013	Page	:	1 of 2

Product Range:

Product:	Gray HC
LGC:	L6435
Cat Code:	V82

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
72	1.25	1.00 to 3.50	-9.00 to -5.25
72	3.25	1.00 to 3.50	-5.00 to -2.00
72	4.50	1.00 to 3.50	-1.75 to +1.25
72	6.25	1.00 to 3.50	+1.50 to +3.75
72	7.00	1.00 to 3.50	+4.00 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)	UVA: 100% UVB: 100%
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 at 'A' (mm)
1.25	1.28	414.06	-5.75	11.6	17.3
3.25	3.26	162.58	-5.75	10.6	13.8
4.50	4.49	118.04	-5.75	8.2	9.8
6.25	6.25	84.80	-5.75	10.4	9.8
7.00	7.01	75.61	-8.00	8.9	10.8

For External Distribution

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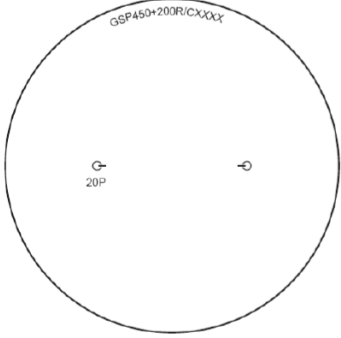
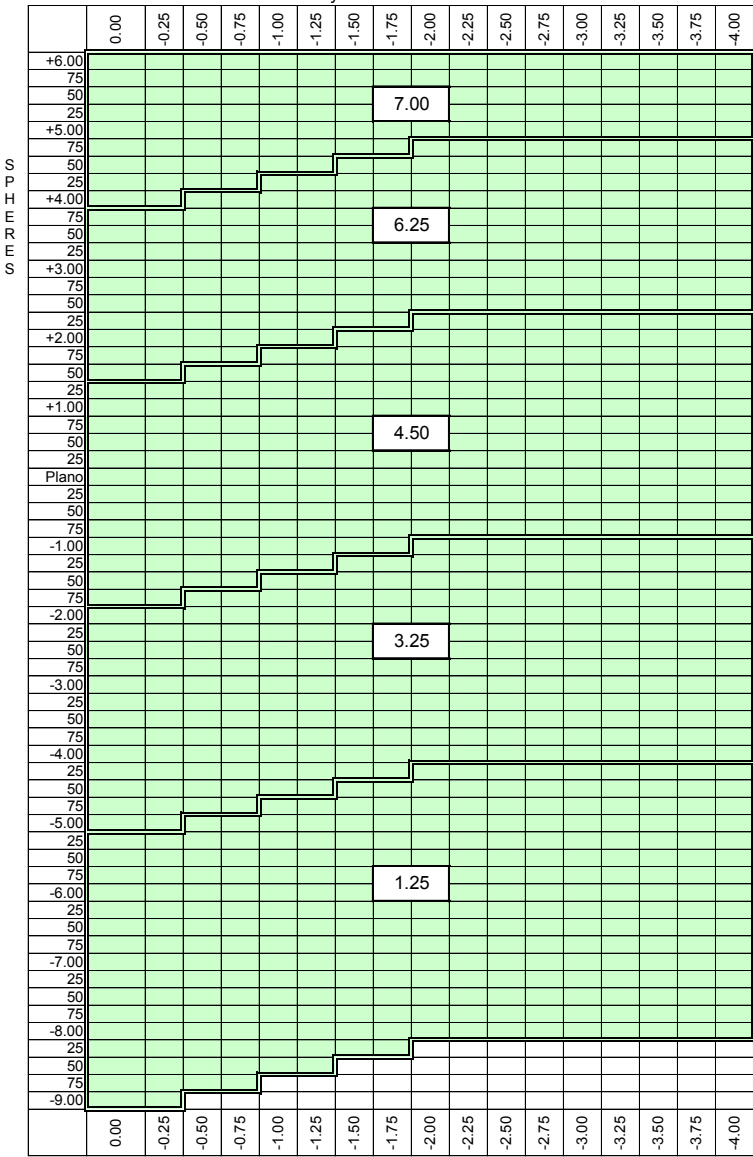
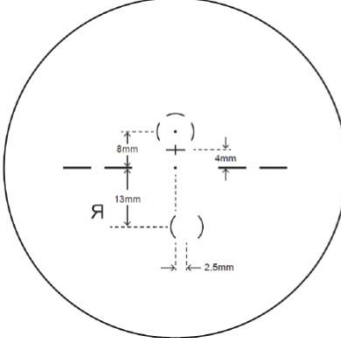
Reference	:	00415.FS1			
Date	:	17 December 2013	Page	:	2 of 2

Surfacing:

Recommended centre & edge thicknesses for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-9.00 to -2.00	1.5	
-1.75 to +2.00	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 Markings:	Recommended Range Chart:
Front Surface: Top Code Only 	Minus Cylinder Convention 
Ink Markings: 	
Back Surface Coding: 	

Substrate	: HARD RESIN	
Product Name	: SYNCHRONY™ PROGRESSIVE	Cat Code: 274
Product Type	: SEMI-FINISHED BLANKS	
Reference	: F5114472_1	
Date	: 28 March 2007	Page : 1 of 2

Product Range:

Nominal Diameter	Nominal Base Curve (D)	Add Power Range (D)	Rx Range Recommended (D)
80 mm	1.25	1.00 to 3.50	-9.00 to -5.25
80 mm	3.25	1.00 to 3.50	-5.00 to -2.00
80 mm	4.50	1.00 to 3.50	-1.75 to +1.25
80 mm	6.25	1.00 to 3.50	+1.50 to +3.75
80 mm	7.00	1.00 to 3.50	+4.00 to +6.00

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	Ultra-Tough™ (Uncoated product also available)

Blank Information:

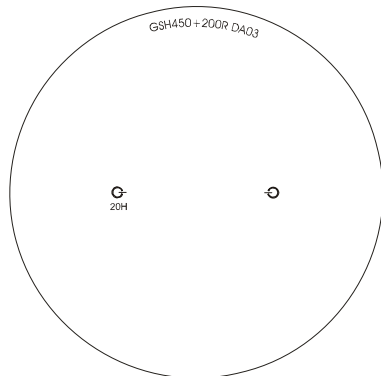
Nominal Base	True Front Curve (D) (1.530)	True Front Curve (D) (1.499)	Radius (mm)	Sag @ 50mm (mm)	Nominal Back Curve (D) (1.530)	Centre Thickness (±1.0mm) (For 2.00Add)	Nominal Edge Thickness (mm)*	Nominal Packaged Weight (g) (For 2.00Add)
1.25	1.24	1.17	427.42	0.73	-3.00	13.0	15.5	100
3.25	3.29	3.10	161.09	1.95	-3.00	15.0	14.5	102
4.50	4.54	4.27	116.74	2.71	-6.00	9.0	11.5	72
6.25	6.32	5.95	83.86	3.81	-6.00	9.5	9.0	65
7.00	7.08	6.66	74.86	4.29	-6.00	11.0	10.0	72

* Measured at the distance edge of the blank.

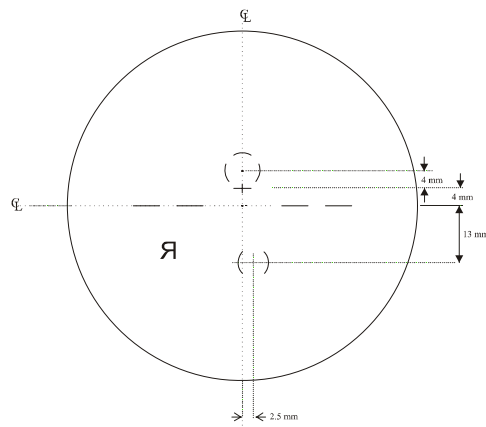
For External Distribution

Product Markings:

Front Surface: RE
Semi-Visible Markings

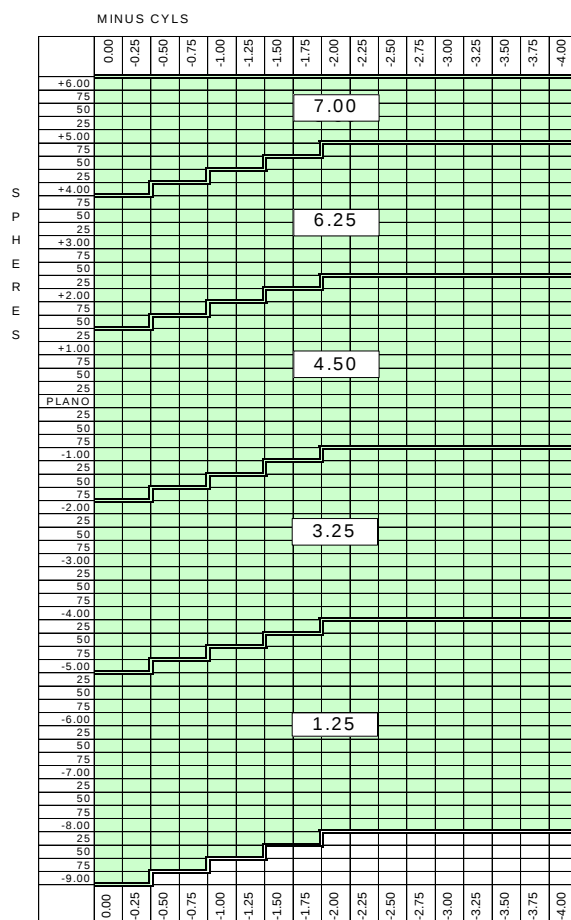


Front Surface: RE Ink Markings
 (Yellow, water based : Uncoated)
 (Yellow, solvent based : Coated)

**Surfacing:**

Recommended Centre & Edge Thicknesses (* - based on whichever is the limiting factor)

Power Range	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	All Markets Minimum Edge Thickness (mm)
-9.00 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 +6.00 D			1.0

Recommended Range Chart:



PRODUCT FACT SHEET

Substrate : **1.50 PhotoFusion®**
 Product Name : **SYNCHRONY™**
 Product Type : **SEMI-FINISHED PROGRESSIVE BLANKS**
 Reference : 00224.FS2
 Date : 1 May 2012

Page : 1 of 2

Product Range:

	Grey
CAT Code	F58

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
78	1.25	1.00 to 3.50	-9.00 to -5.25
78	3.25	1.00 to 3.50	-5.00 to -2.00
78	4.50	1.00 to 3.50	-1.75 to +1.25
78	6.25	1.00 to 3.50	+1.50 to +3.75
78	7.00	1.00 to 3.50	+4.00 to +6.00

Material & Coating Specifications:

Type	1.5 PhotoFusion
Refractive Index	$n_d = 1.502$ (Helium 'd' line 587.56nm) $n_e = 1.504$ (Mercury 'e' line 546.07nm)
Abbe Number	$v_d = 54, v_e = 52$
Density	1.18 g.cm^{-3}
Luminous Transmittance (clear state)	$\geq 87\%$
UV Protection (ISO)	Coated , Activated : 2.0mm Centre Thickness : UVA : 100% UVB : 100%
Coating Type	Hardcoated

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

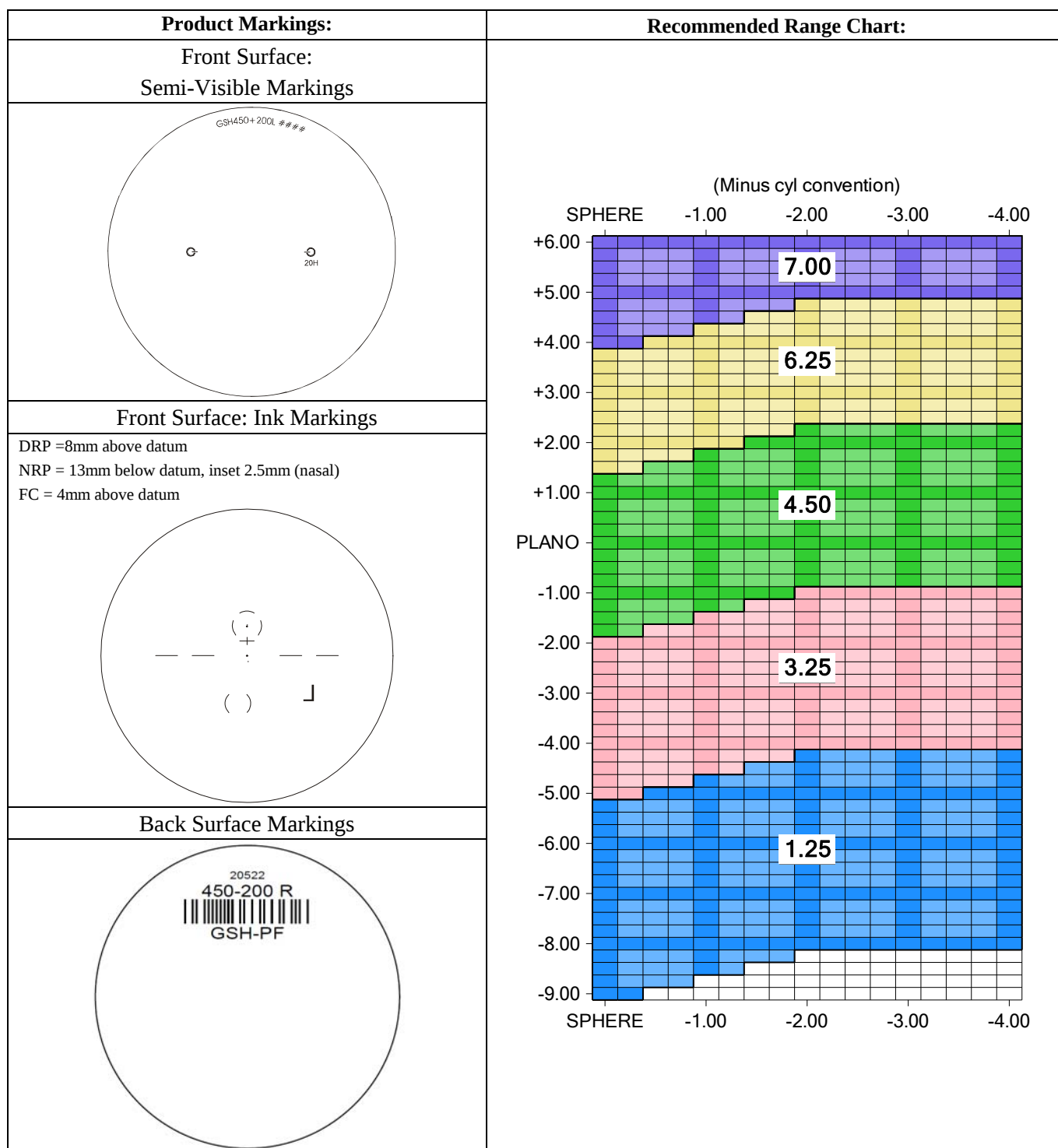
Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (mm) ($\pm 1.0\text{mm}$)	Nominal Edge Thickness at 'A' (mm)
1.25	1.23	430.89	-3.00	13.0	15.5
3.25	3.26	162.57	-3.00	15.0	14.5
4.50	4.55	116.48	-6.00	9.0	11.5
6.25	6.31	83.99	-6.00	9.5	9.0
7.00	7.03	75.39	-6.00	11.0	10.0

For External Distribution

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 +6.00			0.5

*Thicknesses are based on whichever is the limiting factor.





PRODUCT FACT SHEET

Substrate	:	1.5 TRANSITIONS® SIGNATURE VII		
Product Name	:	SYNCHRONY PROGRESSIVE		
Product type	:	SEMI-FINISHED BLANKS		
Reference	:	00404.FS1		
Date	:	29 November 2013	Page	: 1 of 3

Product Range:

Product:	Gray HC
LGC:	L6436
Cat Code:	V79

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
78	1.25	1.00 to 3.50	-9.00 to -5.25
78	3.25	1.00 to 3.50	-5.00 to -2.00
78	4.50	1.00 to 3.50	-1.75 to +1.25
78	6.25	1.00 to 3.50	+1.50 to +3.75
78	7.00	1.00 to 3.50	+4.00 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)	Activated: 2.0mm Centre Thickness. UVA: 100 %, UVB: 100 %
Coating Type	Hard Coated

For External Distribution

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CR-607 is a registered trademark of PPG Industries Inc.
Transitions is a registered trademark of Transitions Optical Inc.

Reference	:	00404.FS1			
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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)
1.25	1.29	410.85	-3.00	13.0	15.5
3.25	3.34	158.68	-3.00	15.0	14.5
4.50	4.61	114.97	-6.00	9.0	11.5
6.25	6.37	83.20	-6.00	9.5	9.0
7.00	7.15	74.13	-6.00	11.0	10.0

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 +6.00			0.5

* Thicknesses are based on whichever is the limiting factor.

