

synchrony Bifocal - Fact Sheets

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PRODUCT FACT SHEET



Product Name	synchrony Semi-Finished Flat-Top Bifocal 28mm 1.59
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Customer Product Codes

Product	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
Hard Coated	398	L2102	SYNC SF B FT28 159 HC ---	COO required	Yes, disclaimer required

Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	ADD Range (D)	Recommended Rx Range (D)
80	0.50	1.00 to 3.00	-13.00 to -10.50
80	2.25	1.00 to 3.00	-10.25 to -5.50
80	4.50	1.00 to 3.00	-5.25 to -2.00
80	6.25	1.00 to 3.00	-1.75 to +2.00
80	8.00	1.00 to 3.00	+2.25 to +6.00

Material & Coating Specifications:

Type	1.59 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 % 2.0 mm Centre Thickness
Coating Type	Hard Coated

Lens Geometry:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (mm) (± 1.0)	Nominal Edge Thickness (mm)	Packaged Weight (g)
0.50	0.58	913.79	-5.75	10.5	18.0	87
2.25	2.27	233.48	-5.75	9.5	15.5	75
4.50	4.50	117.78	-5.75	8.5	10.5	62
6.25	6.22	85.21	-8.00	7.3	11	66
8.00	7.98	66.42	-8.00	10.0	10	72

Surfacing: Recommended centre & edge thicknesses for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-13.00 to -2.00	1.5	
-1.75 to +2.00	2.0 or *	1.5 *
+2.25 to +6.00		1.0

* Thicknesses are based on whichever is the limiting factor

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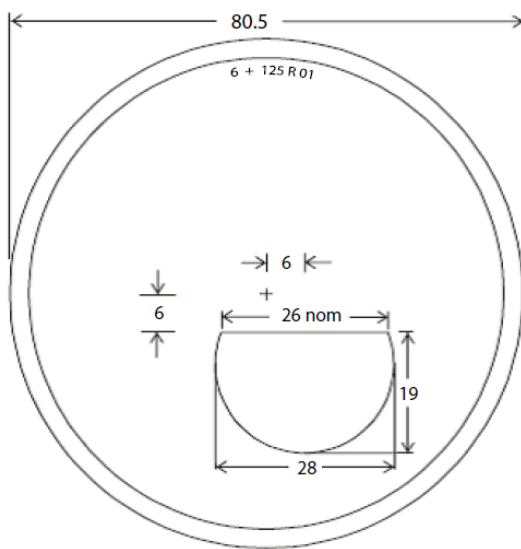
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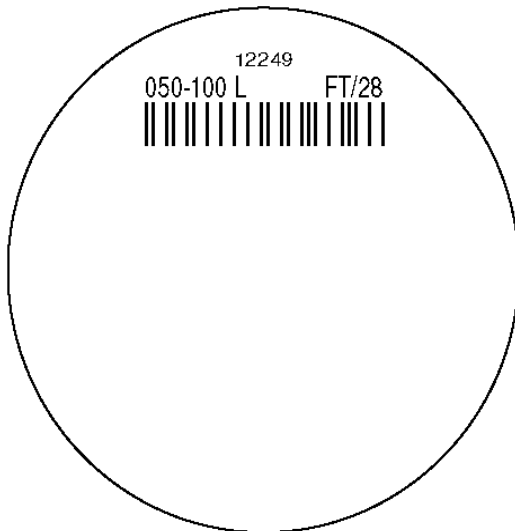
Product Name

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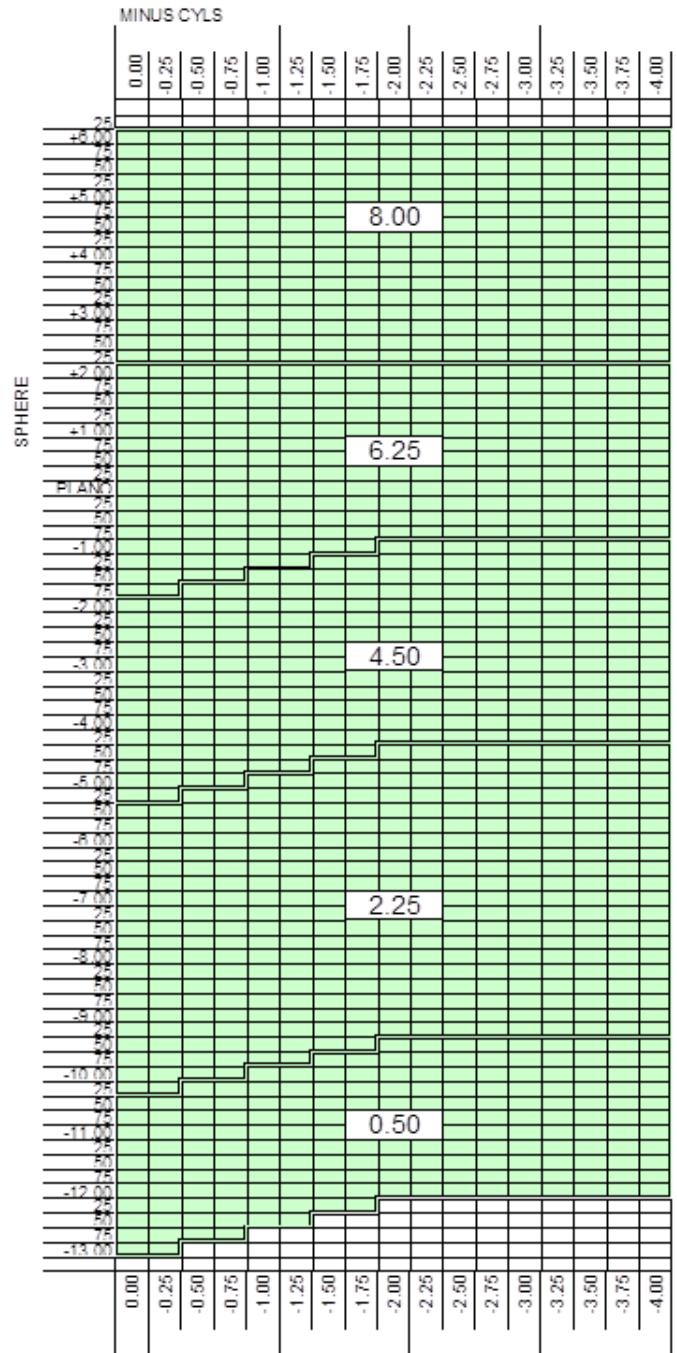
Front Surface Geometry:



Back Surface Coding:



Recommended Range Chart:



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PRODUCT FACT SHEET



Product Name	synchrony Semi-Finished FLAT-TOP Bifocal 76 x 28mm 1.5 Photochromic
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1. Customer Product Codes

CAT Code:	LGC:	LGC Description:	Notes:	FDA:
	L6156	SYNC SF B FT28 15 PH GRY UNC ---	Country of Origin required on Label	US FDA disclaimer Required
	L6157	SYNC SF B FT28 15 PH BRN UNC ---		
F25	L6158	SYNC SF B FT28 15 PH GRY HC B--		
F26	L6159	SYNC SF B FT28 15 PH BRN HC B--		

2. Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Rx Range Recommended (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

3. Material & Coating Specifications:

Type	1.5 Photochromic
Refractive Index	$n_d = 1.502$ $n_e = 1.504$
Abbe Number	$v_d = 54$ $v_e = 52$
Density	1.18 g/cm ³
Luminous Transmittance (clear state)	≥ 87%
UV Protection (ISO)	Coated, Activated : 2.0 mm Centre Thickness: UVA : 100 %, UVB : 100 %
Coating Type	Hard Coated & Uncoated

4. Lens Geometry: Curves measured in 1.530 Index, at the Geometric Centre

Nominal Base	True Front Curve (D)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0mm)	Nominal Edge Thickness (mm)
0.50	0.37	1432.43	-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

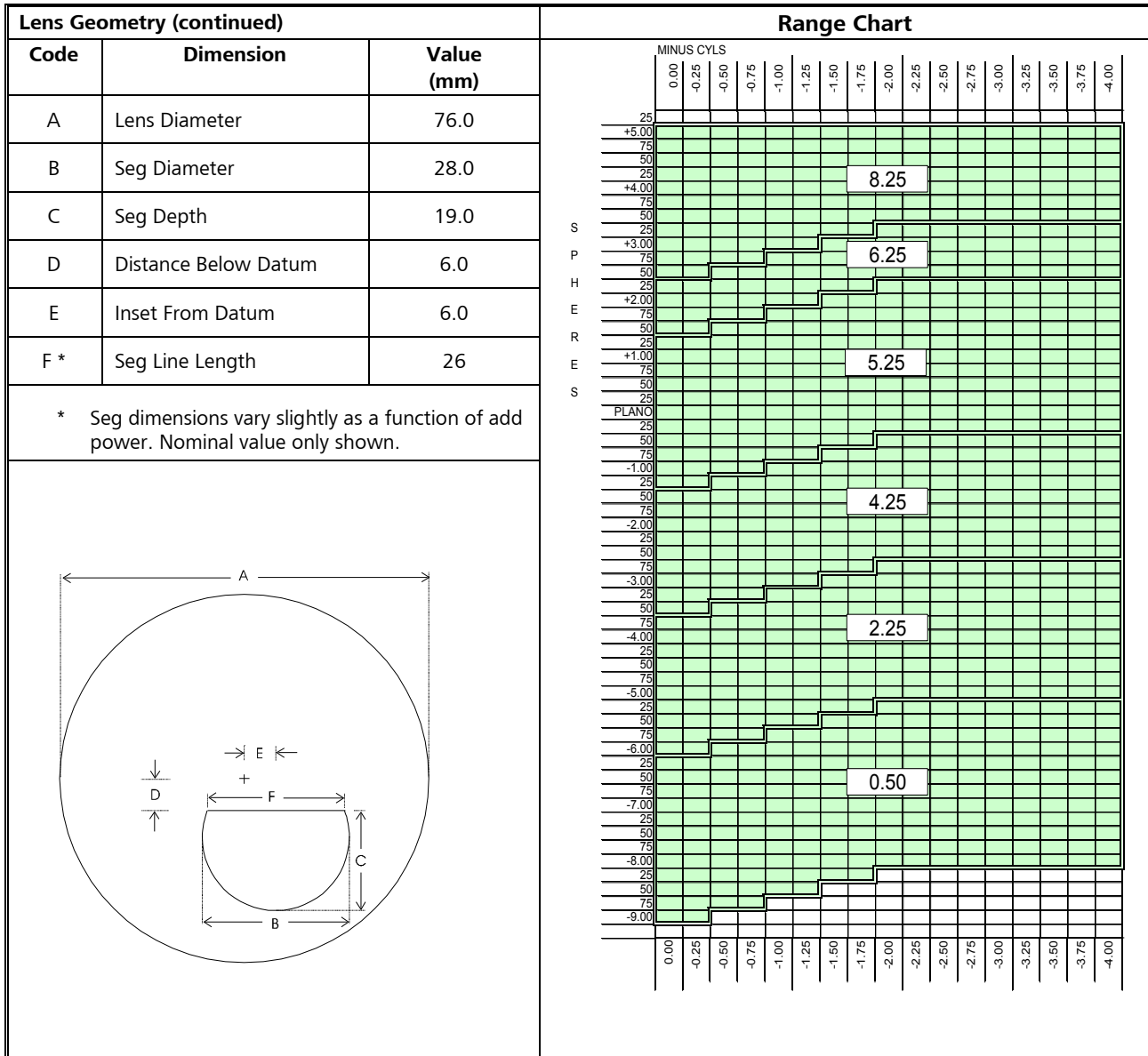
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PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished FLAT-TOP Bifocal 76 x 28mm 1.5 Photochromic



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

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

* Thicknesses are based on whichever is the limiting factor

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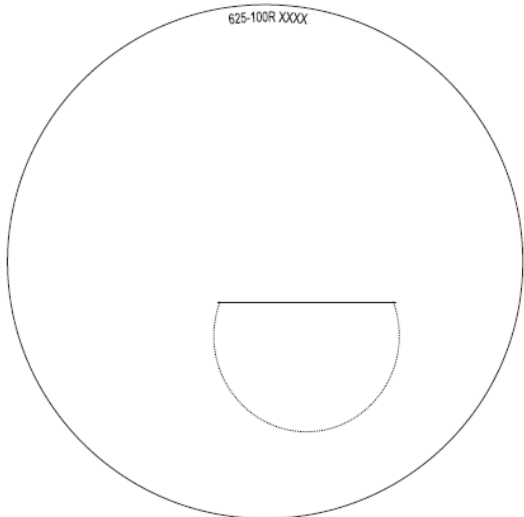
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Product Name	synchrony Semi-Finished FLAT-TOP Bifocal 76 x 28mm 1.5 Photochromic
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6. Product Markings: Samples

Permanent Markings – Front Surface	Permanent Markings – Back Surface
	

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PRODUCT FACT SHEET



Product Name	synchrony Semi-Finished FLAT-TOP Bifocal 76 x 35mm 1.5 Photochromic
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1. Customer Product Codes

CAT Code:	LGC:	LGC Description:	Notes:	FDA:
C24	L6851	SYNC SF B FT35 15 PH GRY HC B--	Country of Origin required on Label	US FDA disclaimer Required

2. Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Rx Range Recommended (D)
76	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

3. Material & Coating Specifications:

Type	1.5 Photochromic
Refractive Index	$n_d = 1.502$ $n_e = 1.504$
Abbe Number	$v_d = 54$ $v_e = 52$
Density	1.18 g/cm ³
Luminous Transmittance (clear state)	≥ 87%
UV Protection (ISO)	Coated, Activated : 2.0 mm Centre Thickness: UVA : 100 %, UVB : 100 %
Coating Type	Hard Coated

4. Lens Geometry: Curves measured in 1.530 Index, at the Geometric Centre

Nominal Base	True Front Curve (D)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (mm) (± 1.0mm)	Nominal Edge Thickness (mm)	Nominal Packaged weight (g)
4.00	3.68	144.02	-6.00	11.3	14.6	85
6.00	5.89	89.98	-6.00	8.9	9.0	66
8.00	8.01	66.17	-6.00	12.5	9.0	77

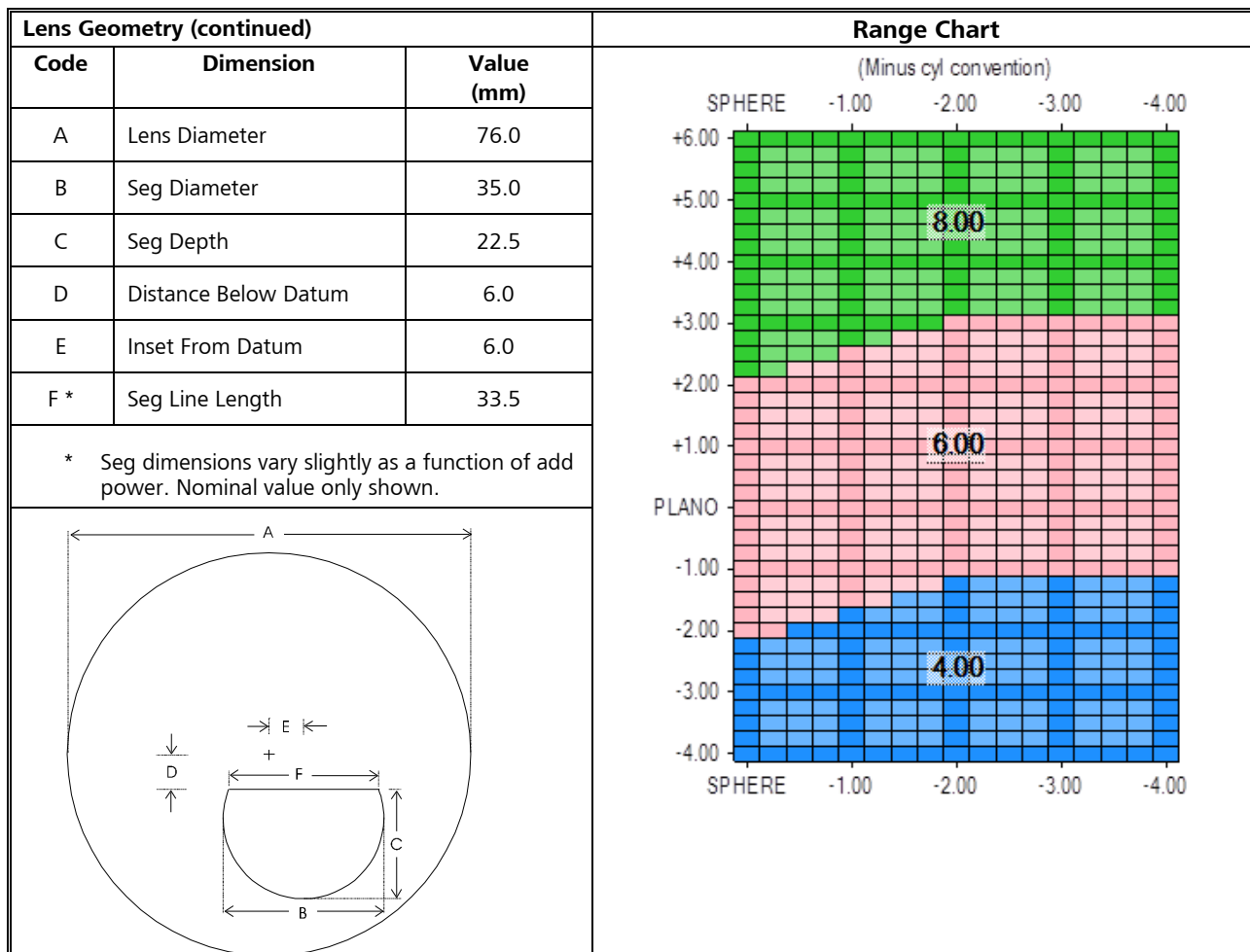
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Product Name

synchrony Semi-Finished FLAT-TOP Bifocal 76 x 35mm 1.5 Photochromic



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

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

* Thicknesses are based on whichever is the limiting factor

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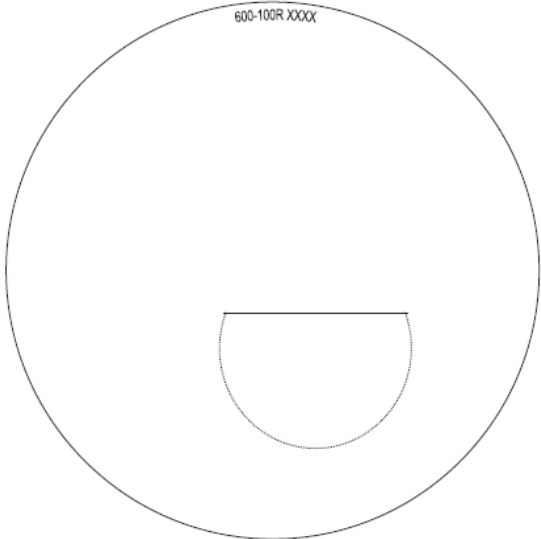
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Product Name

synchrony Semi-Finished FLAT-TOP Bifocal 76 x 35mm 1.5 Photochromic

6. Product Markings: Samples

Permanent Markings – Front Surface	Permanent Markings – Back Surface
	

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PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished Flat-Top Bifocal 76 x 28mm 1.5
Transitions Signature VII

Customer Product Codes

For Europe:

Product:	LGC:	LGC Description:	Notes:	FDA:
Brown HC	L6380	3P SF B FT28 15 TR BRN HC DE-	COO required	Yes, disclaimer required
Gray HC	L6381	3P SF B FT28 15 TR GRY HC DE-		
Brown UNC	L6382	3P SF B FT28 15 TR BRN UNC DE-		
Gray UNC	L6383	3P SF B FT28 15 TR GRY UNC DE-		

For USA:

Product:	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
Brown HC	V92	L6454	SYNC SF B FT28 15 TR BRN HC DE-	COO required	Yes, disclaimer required
Gray HC	V93	L6455	SYNC SF B FT28 15 TR GRY HC DE-		

Product Range:

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 CR607		
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 2.0 mm Centre Thickness UVA : 100 %, UVB : 100 %		
Coating Type	Hard Coated		

Lens Geometry:

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

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Product Name

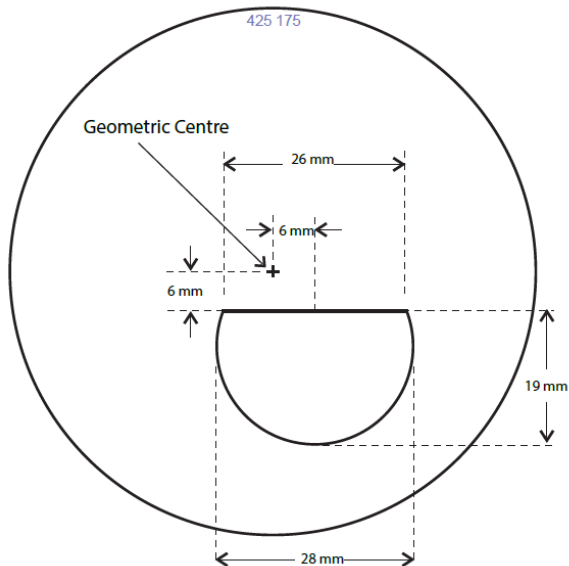
synchrony Semi-Finished Flat-Top Bifocal 76 x 28mm 1.5
Transitions Signature VII

Surfacing: Recommended centre & edge thicknesses for all regions:

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	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

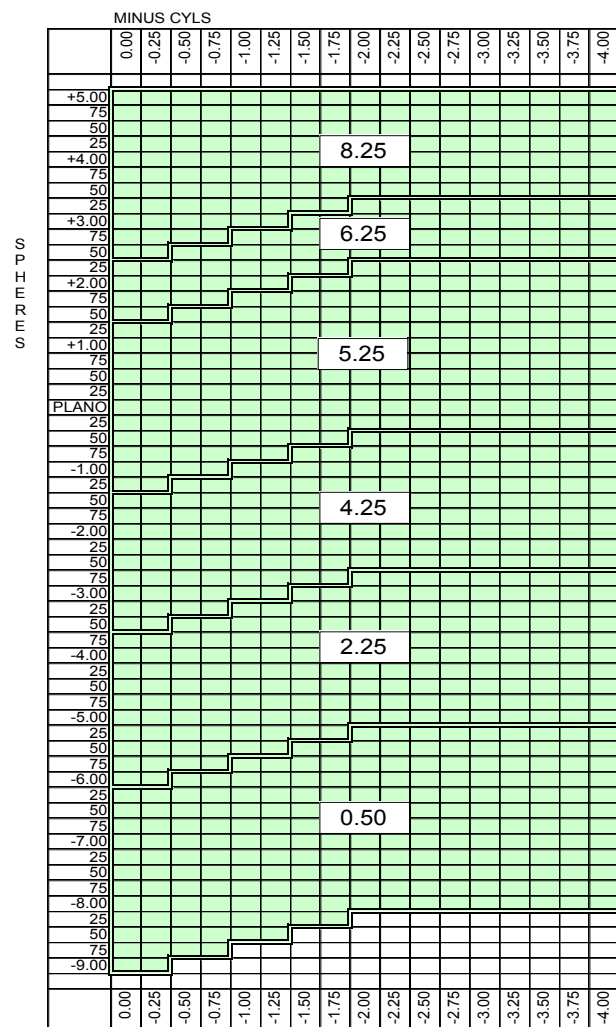
Front Surface Geometry:



Back Surface Coding:

Transitions apply a dot matrix identification code to the back surface. This is approximately 10mm x10mm in size.

Recommended Range Chart:



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PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished Flat-Top Bifocal 76 x 35mm 1.5
Transitions Signature VII

Customer Product Codes

Product	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
Gray HC	V94	L6425	SYNC SF B FT35 15 TR GRY HC DE-	COO required	Yes, disclaimer required

Product Range:

Nominal Diameter (mm)	Nominal Seg Size (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
74	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 +6.00

Material & Coating Specifications:

Type	1.5 CR607
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 2.0 mm Centre Thickness UVA : 100 %, UVB : 100 %
Coating Type	Hard Coated

Lens Geometry:

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 (mm)	Int'l Market Minimum Centre Thickness (mm)	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

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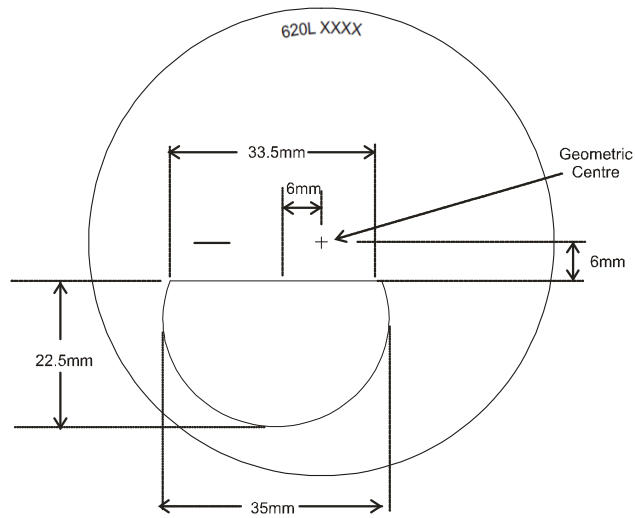


Product Name

synchrony Semi-Finished Flat-Top Bifocal 76 x 35mm 1.5
Transitions Signature VII

Front Surface Geometry & Markings:

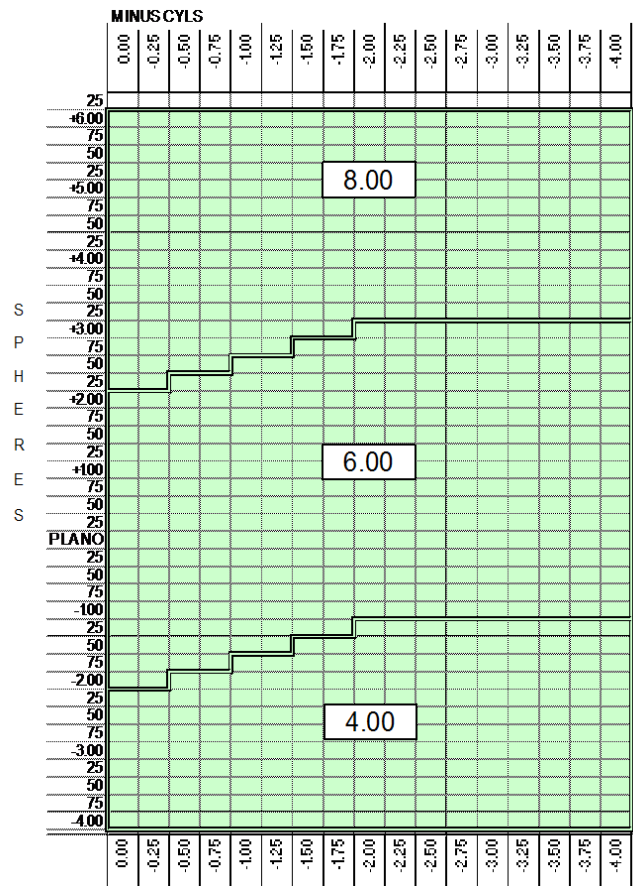
Seg Dimensions
Visible Top Code only



Back Surface Coding:



Recommended Range Chart:



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PRODUCT FACT SHEET



Product Name synchrony Semi-Finished Flat-Top Bifocal 72 x 28mm 1.5 - USA

Customer Product Codes

Product	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
Uncoated 72mm	206	L2050	SYNC SF B FT28 15 UNC ---	COO required	Yes, disclaimer required
Hard Coated 72mm	510	L2133	SYNC SF B FT28 15 HC ---		

Product Range:

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
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	1.5 Polymer
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	Uncoated & Hard Coated

Lens Geometry:

	Code	Description	Dimension (mm)	Tolerance (mm)
	A	Nominal Diameter	72	-
	B	Seg Diameter	28.0	± 0.25
	C	Seg Depth	19.0	± 0.50
	D	Distance Below Datum	6.0	± 0.25
	E	Inset From Datum	7.0	± 1.0
	F*	Seg Line Length	26.0	-
* Seg dimensions vary slightly as a function of add power. Nominal value only shown				

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PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished Flat-Top Bifocal 72 x 28mm 1.5 - USA

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
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

Product Markings:

Ink Markings: None

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

Surfacing: Recommended centre & edge thicknesses for all regions:

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	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

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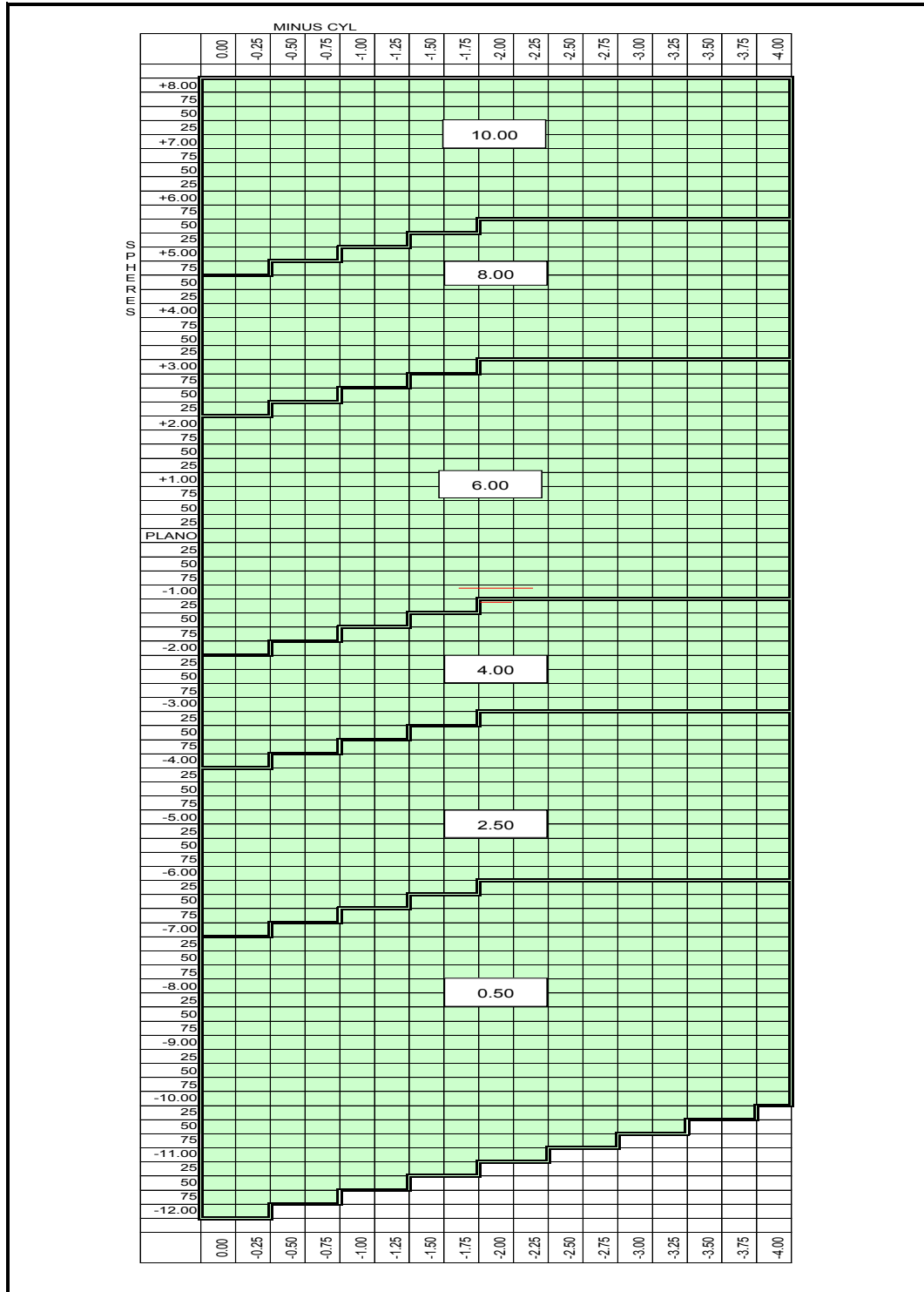
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Product Name

synchrony Semi-Finished Flat-Top Bifocal 72 x 28mm 1.5 - USA

Recommended Base Curve Selection Chart:



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PRODUCT FACT SHEET



Product Name synchrony Semi-Finished Flat-Top Bifocal 76 x 28mm 1.5

Customer Product Codes

Product	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
Uncoated	128	L2039	SYNC SF B FT28 15 UNC ---	COO required	Yes, disclaimer required
Hard Coated	766	L2185	SYNC SF B FT28 15 HC ---		

Product Range:

¹ Not available in Hardcoat

Nominal Diameter (mm)	Nominal Seg Size (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
76	28	2.50	1.00 to 3.00	-7.00 to -4.25
76	28	4.00	0.75 to 3.50	-4.00 to -2.25
76	28	5.00 ¹	1.00 to 3.00	-2.00 to 0.00
76	28	6.00	0.75 to 3.50	+0.25 to +2.00
76	28	8.00	0.75 to 3.50	+2.25 to +4.50
76	28	10.00	1.00 to 3.00	+4.75 to +8.00

Material & Coating Specifications:

Type	1.5 Polymer
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	Uncoated & Hard Coated

Lens Geometry:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (mm) (± 1.0)	Nominal Edge Thickness (mm)	Packaged Weight (g)
2.50	2.15	246.51	-3.00	15.8	17.0	111
4.00	3.68	144.02	-6.00	11.5	15.0	91
5.00	4.77	111.11	-6.00	12.8	15.0	94
6.00	5.92	89.53	-6.00	8.9	9.0	64
8.00	8.01	66.17	-6.00	12.4	9.0	76
10.00	10.00	53.00	-6.00	16.5	8.5	90

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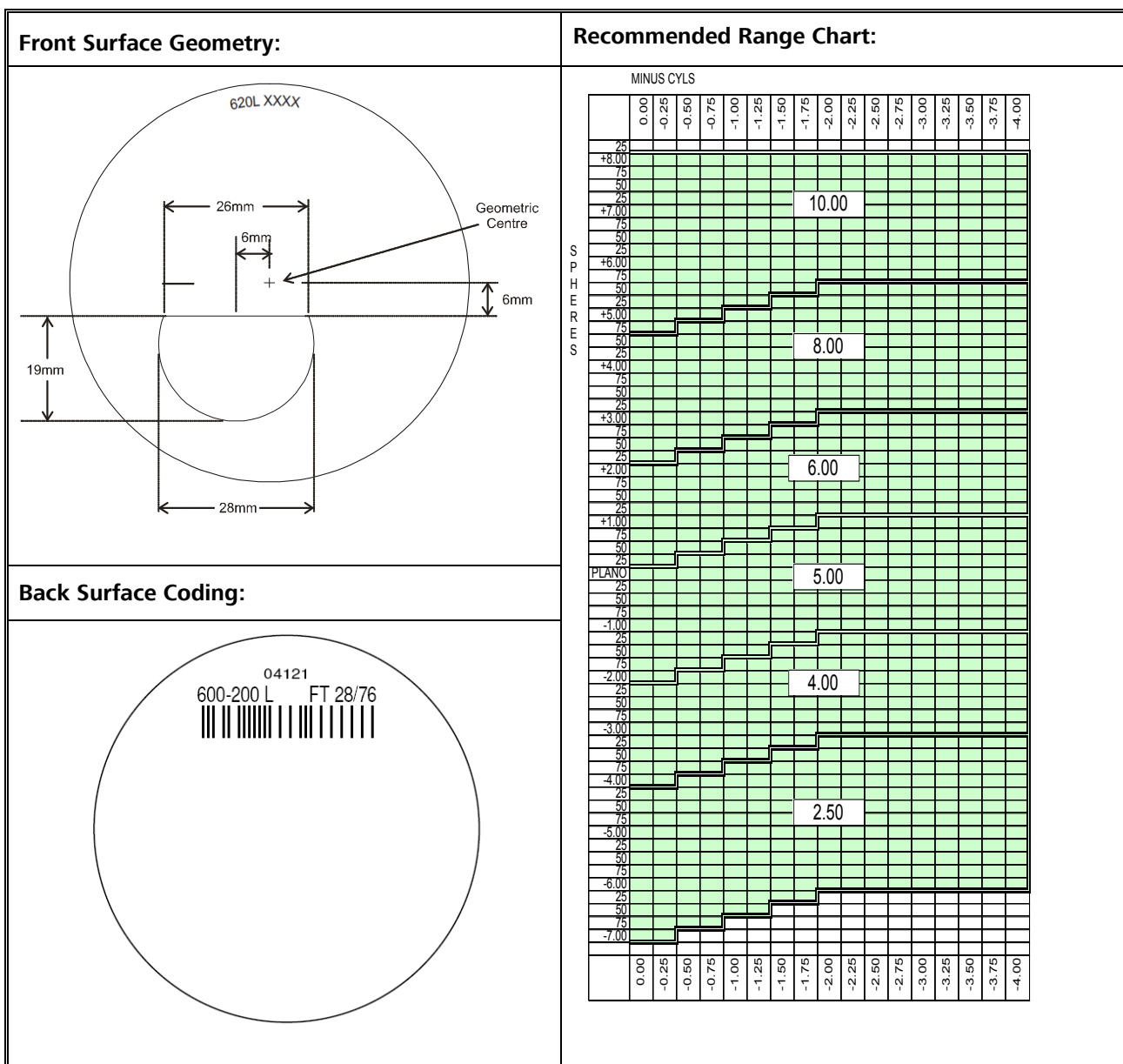


Product Name synchrony Semi-Finished Flat-Top Bifocal 76 x 28mm 1.5

Surfacing: Recommended centre & edge thicknesses for all regions:

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	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



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Reviewed by: Geoff Riley, 09 May 2017

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PRODUCT FACT SHEET



Product Name	synchrony Semi-Finished Flat-Top Bifocal 72 x 35mm 1.5
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Customer Product Codes

Product	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
Uncoated	221	L2053	SYNC SF B FT35 15 UNC ---	COO required	Yes, disclaimer required
Hard Coated	515	L2138	SYNC SF B FT35 15 HC ---		

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	1.5 Polymer
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	Uncoated & Hard Coated

Lens Geometry:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0mm)	Nominal Edge Thickness (mm)
0.50	0.37	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
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

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PRODUCT FACT SHEET



Product Name

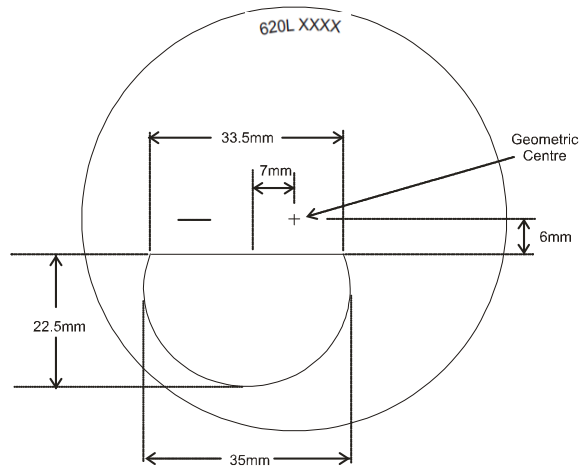
synchrony Semi-Finished Flat-Top Bifocal 72 x 35mm 1.5

Surfacing: Recommended centre & edge thicknesses for all regions:

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	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

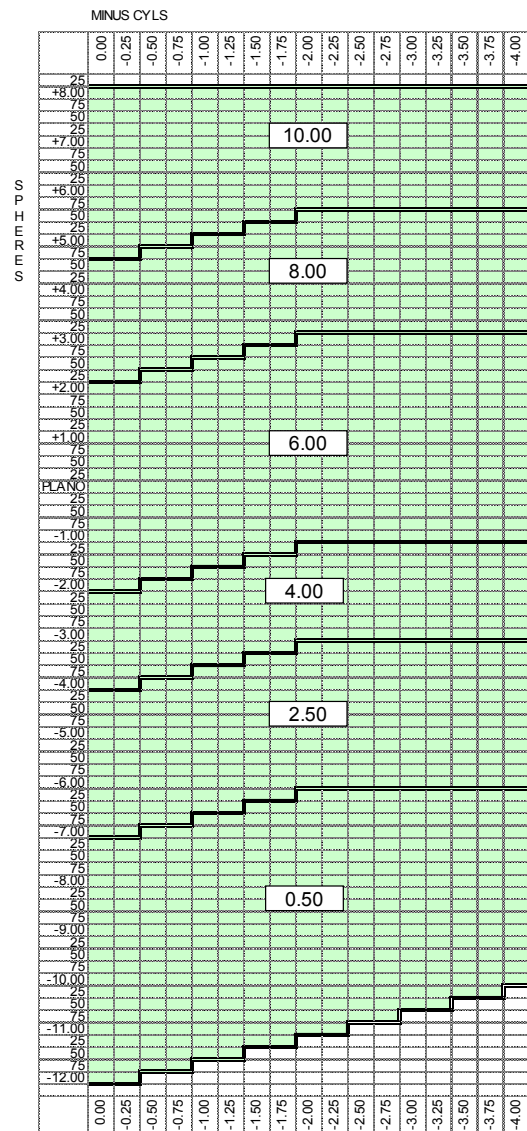
Front Surface Geometry:



Back Surface Coding:



Recommended Range Chart:



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PRODUCT FACT SHEET



Product Name synchrony Semi-Finished Flat-Top Bifocal 76 x 35mm 1.5

Customer Product Codes

Product	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
Uncoated	127	L2038	SYNC SF B FT35 15 UNC ---	COO required	Yes, disclaimer required
Hard Coated	770	L2186	SYNC SF B FT35 15 HC ---		

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	1.5 Polymer
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	Uncoated & Hard Coated

Lens Geometry:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (mm) (± 1.0)	Nominal Edge Thickness (mm)	Packaged Weight (g)
2.50	2.15	246.51	-3.00	15.8	17.0	110
4.00	3.68	144.02	-6.00	11.5	15.0	91
6.00	5.92	89.53	-6.00	8.9	9.0	64
8.00	8.01	66.17	-6.00	12.4	9.0	75

Surfacing: Recommended centre & edge thicknesses for all regions:

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	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

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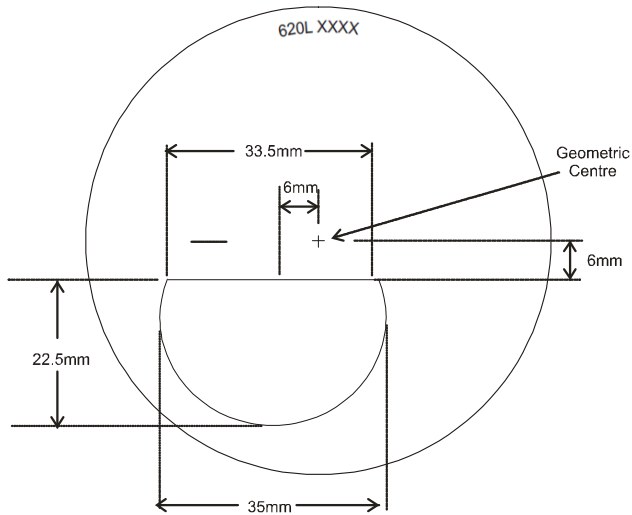
PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished Flat-Top Bifocal 76 x 35mm 1.5

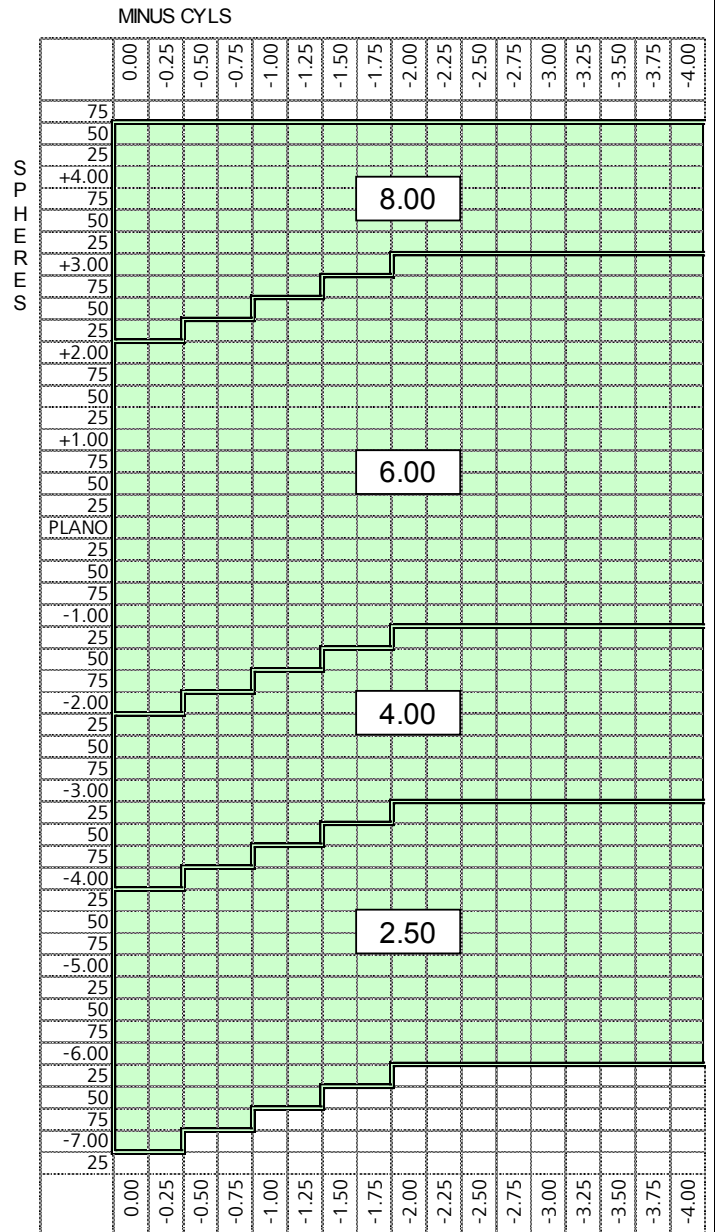
Front Surface Geometry:



Back Surface Coding:



Recommended Range Chart:



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PRODUCT FACT SHEET



Product Name	synchrony Semi-Finished Blended Round Seg Bifocal 76 x 28mm 1.5
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Customer Product Codes

Product	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
Hard Coated	755	L2183	SYNC SF B RS28 15 HC ---	COO required	Yes, disclaimer required

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
		6.00	0.75 to 3.00	-2.00 to +2.00
		8.00	0.75 to 3.00	+2.25 to +4.50

Material & Coating Specifications:

Type	1.5 Polymer
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

Lens Geometry:

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

Surfacing: Recommended centre & edge thicknesses for all regions:

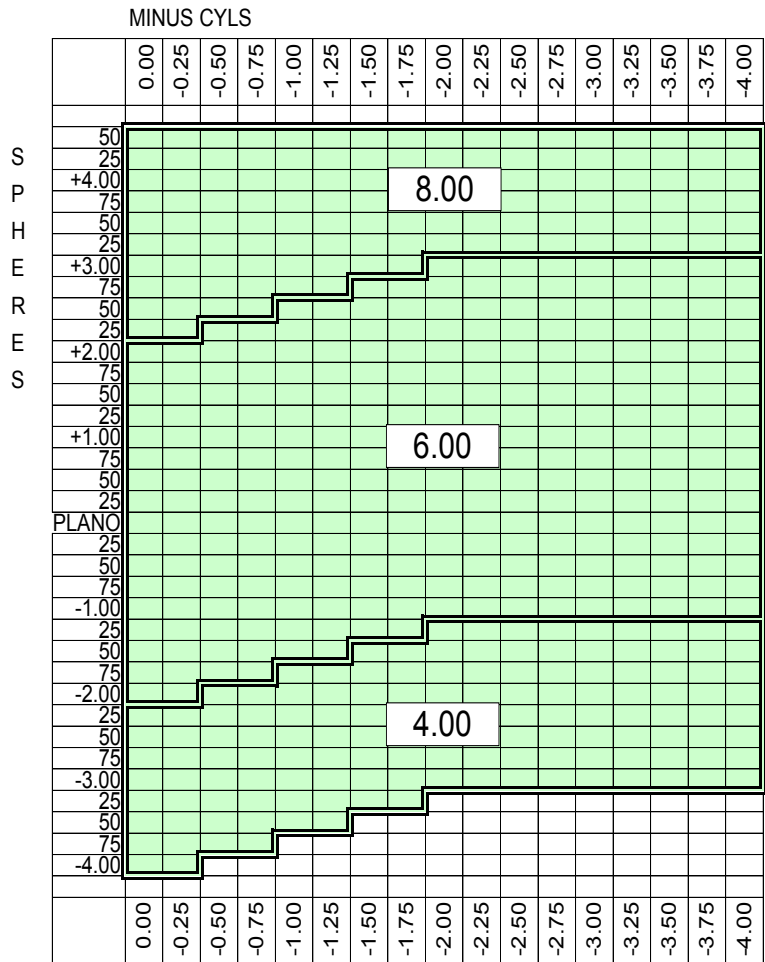
Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-4.00 to -2.00	2.0	1.5	
-1.75 to +2.00	2.0 or *	2.0 or *	1.0 *
+2.25 to +4.00			1.0
+4.25 to +4.50			0.5

* Thicknesses are based on whichever is the limiting factor .

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synchrony Semi-Finished Blended Round Seg Bifocal 76 x 28mm 1.5

Recommended Range Chart:



03142
6-200 EZ 2 VUE/76

Reviewed by: Geoff Riley, 10 May 2017
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PRODUCT FACT SHEET



Product Name synchrony Semi-Finished Round Seg Bifocal 76 x 24mm 1.5

Customer Product Codes

Product	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
Uncoated	677	L2033	SYNC SF B RS24 15 UNC ---	COO required	Yes, disclaimer required
Hard Coated	779	L2193	SYNC SF B RS24 15 HC ---		

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	1.00 to 3.00	-4.00 to -2.25
		6.00	1.00 to 3.00	-2.00 to +2.00
		8.00	1.00 to 3.00	+2.25 to +4.50

Material & Coating Specifications:

Type	1.5 Polymer
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	Uncoated & Hard Coated

Lens Geometry:

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

Surfacing: Recommended centre & edge thicknesses for all regions:

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	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

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Reviewed by: Geoff Riley, 12 May 2017

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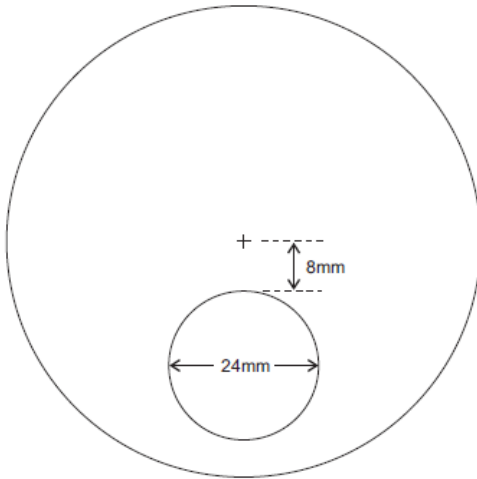


Product Name

synchrony Semi-Finished Round Seg Bifocal 76 x 24mm 1.5

Ink Markings: None

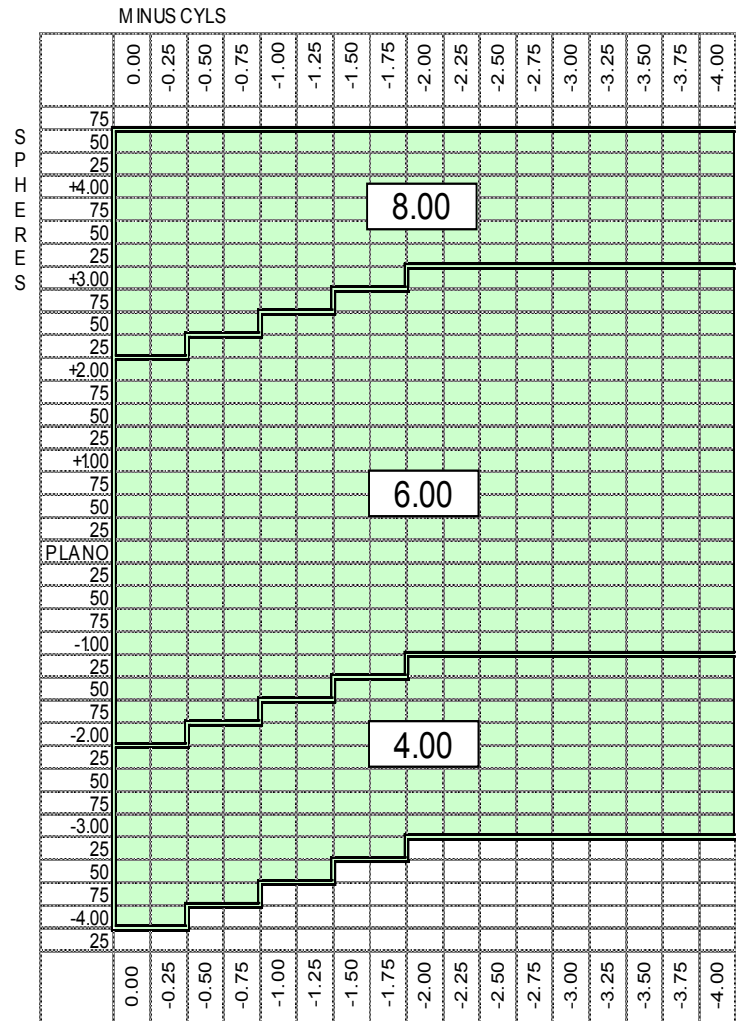
Front Surface Geometry:



Back Surface Curve: Cast on Visible Code:



Recommended Base Curve Selection Chart:



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For External Distribution

Reviewed by: Geoff Riley, 12 May 2017

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PRODUCT FACT SHEET



Product Name synchrony Semi-Finished E-Line Bifocal 1.5

Customer Product Codes

Product	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
Uncoated (68mm)	045	L2019	SYNC SF B E-L 15 UNC ---	COO required	Yes, disclaimer required
HC (PG 78mm)	780	L2194	SYNC SF B E-L 15 PG ---		

Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Recommended Rx Range (D)
68 only	2.50	1.00 to 3.00	-7.00 to -4.50
68 & 78	4.00	1.00 to 3.00	-2.00 to -0.25
68 & 78	6.00	0.75 to 3.00	0.00 to +4.00

Material & Coating Specifications:

Type	1.5 Polymer
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	Uncoated & Hardcoated

Lens Geometry:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (mm) (±1.0mm) ^{Note 1}		Nominal Edge Thickness at 'D'(mm)	
				78mm	68mm	78mm	68mm
2.50	2.15	246.51	-6.00	n/a	8.5	n/a	12.0
4.00	3.68	144.02	-6.00	7.7	9.5	11.0	12.0
6.00	5.92	89.53	-6.00	11.2	9.5	11.0	9.5

Note 1: These values are based on the 100 Add power for each base. The Higher Adds will typically have a thicker centre thickness, but should still be acceptable even if thicker than tolerance

Surfacing: Recommended centre & edge thicknesses for all regions:

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

* Thicknesses are based on whichever is the limiting factor

Recommended Range Chart:

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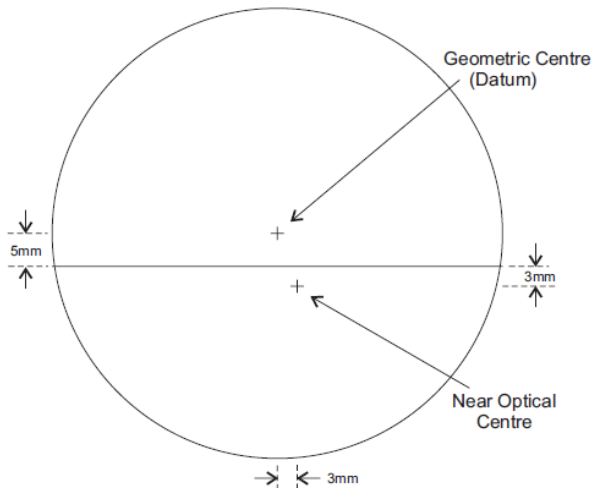
PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished E-Line Bifocal 1.5

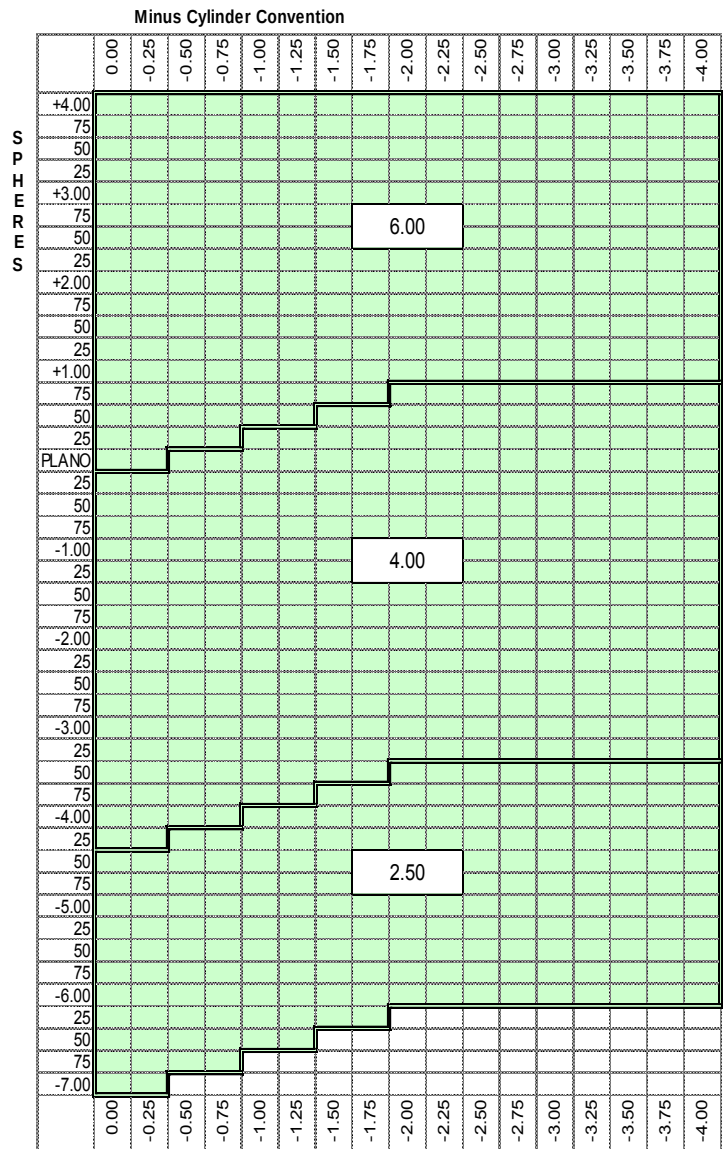
Lens Geometry:



Back Surface Coding:



Recommended Range Chart:



Document Number: 0101118.FS5

For External Distribution

Reviewed by: Geoff Riley, 09 May 2017

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PRODUCT FACT SHEET



Product Name Finished Flat Top Bifocal 1.5 UC 68 x 28mm

1. Customer Product Codes

CAT Code	LGC	LGC Description	Notes	FDA
356	L3308	SYNC F B FT28 15 UNC 68 ---	Country of Origin required on Label	Yes

2. Material & Coating Specifications:

Type	1.5 Polymer
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 : 94 %, UVB : 100 % 2.0 mm Centre Thickness
Coating Type	Uncoated

3. Product Markings: None

4. Product Range: 68mm x28mm seg.

Sphere Powers (D)	Increment (D)	Add Powers (D)	Add Increment (D)
0.00 to +3.00	0.25	1.00 to 3.00	0.25

5. Lens 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	

Document Number: 0101207.FS1

For External Distribution

Reviewed by: Geoff Riley, 30 Mar 2016

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PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished Flat-Top Bifocal 66 x 28mm
1.523 Mineral White & Photogray Extra

Customer Product Codes

Product:	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
White	040	L2014	SYNC SF B FT28 M15 UNC ---	COO required	Yes, disclaimer required
PGX	041	L2015	SYNC SF B FT28 M15 PH GRY UNC G--		

Product Range:

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 & Coating Specifications:

Type	White Glass		PhotoGray Extra Glass	
Refractive Index	$n_d = 1.523$	$n_e = 1.525$	$n_d = 1.523$	$n_e = 1.525$
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)	UVA : 20 %, UVB : 79 % 1.5 mm Centre Thickness		UVA : 97 %, UVB : 100 % Activated, 1.5 mm Centre Thickness	
Coating Type	Uncoated			

Lens Geometry:

Nominal Base	True Front Curve (1.530) (D)	True Front Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0 mm)	Nominal Edge Thickness (mm)
4.25	4.15	127.71	-6.00	7.8	8.9
6.25	6.20	85.48	-6.00	6.8	5.5
8.25	8.17	64.87	-6.00	7.5	4.9

Surfacing: Recommended centre & edge thicknesses for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-4.00 to -1.00	2.0	
-0.75 to +2.75	2.0*	1.7*
+3.00 to +5.50		1.7

* Thicknesses are based on whichever is the limiting factor

Document Number: 0102066.FS2

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Reviewed by: Geoff Riley, 02 Jun 2017

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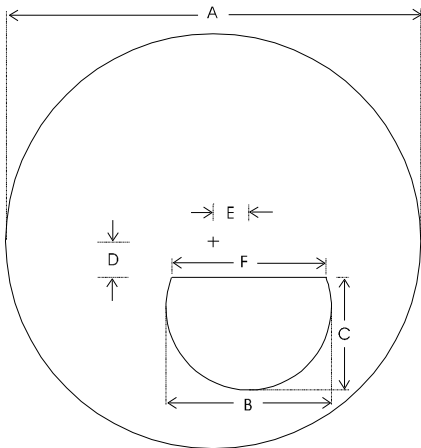
PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished Flat-Top Bifocal 66 x 28mm
1.523 Mineral White & Photogray Extra

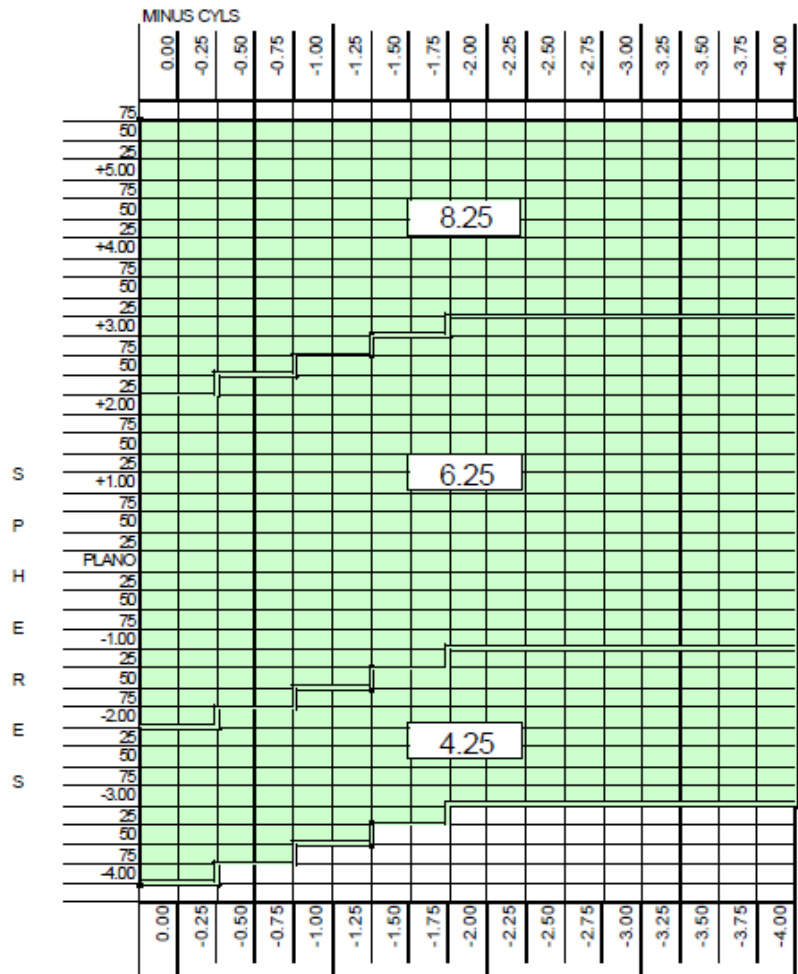
Lens Geometry continued:



Code	Description	Value (mm)
A	Nominal Diameter	66
B	Seg Diameter	28.0
C	Seg Depth	23.0
D	Distance Below Datum	4.0
E	Inset From Datum	5.5
F *	Seg Line Length	21.5

* Seg dimensions vary slightly as a function of add power. Nominal value only shown.

Recommended Base Curve Selection Chart:



Product Markings: None

Document Number: 0102066.FS2

For External Distribution

Reviewed by: Geoff Riley, 02 Jun 2017

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PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished Flat-Top Bifocal 71 x 28mm
1.523 Mineral White & Photogray Extra

Customer Product Codes

Product:	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
White	044	L2018	SYNC SF B FT28 M15 UNC ---	COO required	Yes, disclaimer required
PGX	046	L2020	SYNC SF B FT28 M15 PH GRY UNC G--		

Product Range:

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 & Coating Specifications:

Type	White Glass	PhotoGray Extra Glass
Refractive Index	$n_d = 1.523$ $n_e = 1.525$	$n_d = 1.523$ $n_e = 1.525$
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)	UVA : 20 %, UVB : 79 % 1.5 mm Centre Thickness	UVA : 97 %, UVB : 100 % Activated, 1.5 mm Centre Thickness
Coating Type	Uncoated	

Lens Geometry:

Nominal Base	True Front Curve (1.530) (D)	True Front Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0 mm)	Nominal Edge Thickness (mm)
2.00	2.00	265	-6.00	8.7	13.3
4.25	4.15	127.71	-6.00	8.0	9.9
6.25	6.20	85.48	-6.00	7.1	6.3
8.25	8.17	64.87	-6.00	10.0	5.8

Surfacing: Recommended centre & edge thicknesses for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-7.00 to -1.00	2.0	
-0.75 to +2.75	2.0*	1.7*
+3.00 to +5.50		1.7

* Thicknesses are based on whichever is the limiting factor

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Reviewed by: Geoff Riley, 20 Jul 2017

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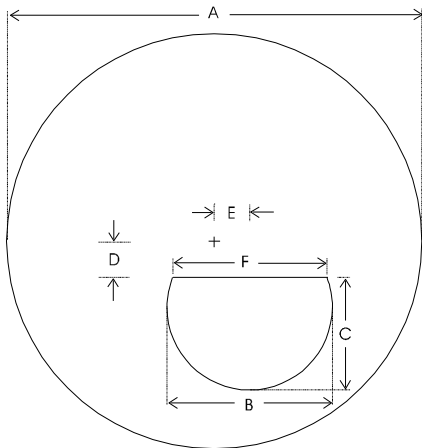
PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished Flat-Top Bifocal 71 x 28mm
1.523 Mineral White & Photogray Extra

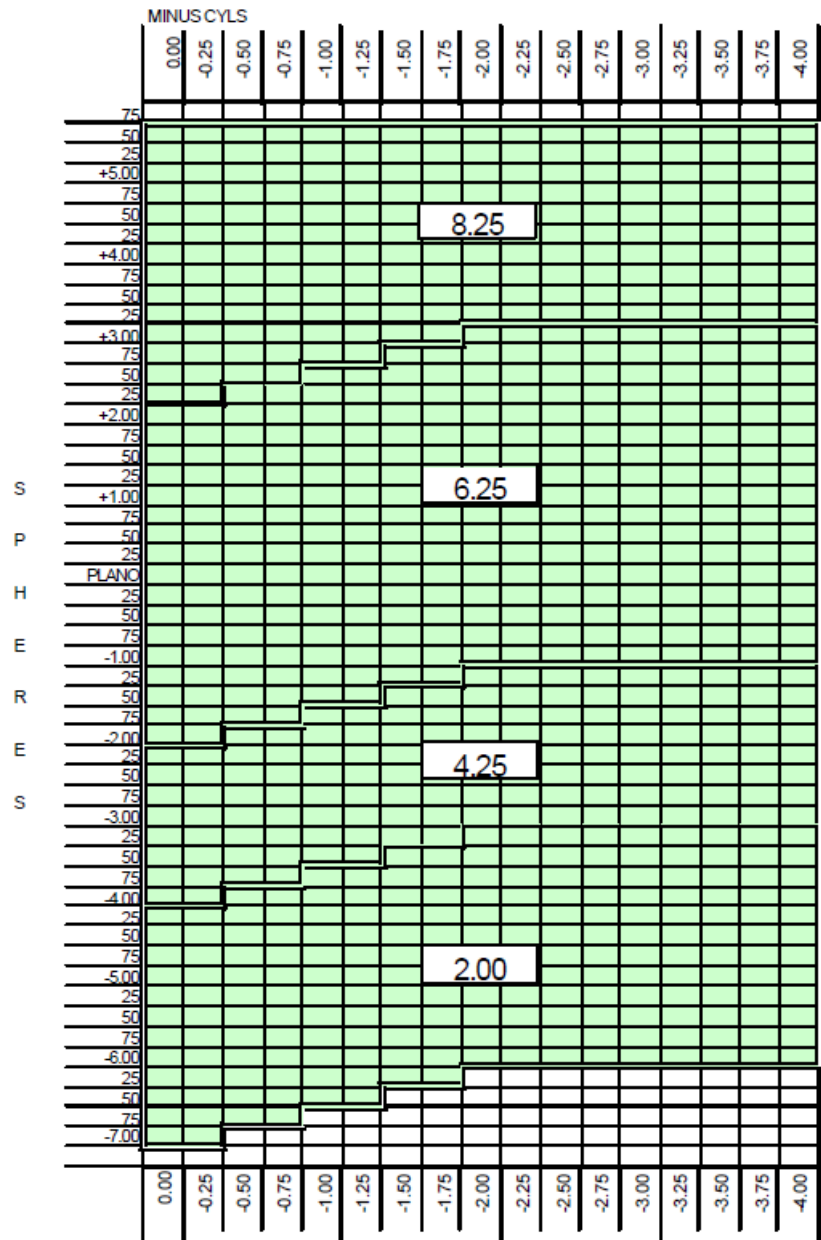
Lens Geometry continued:



Code	Description	Value (mm)
A	Nominal Diameter	71
B	Seg Diameter	28.0
C	Seg Depth	23.0
D	Distance Below Datum	6.0
E	Inset From Datum	7.0
F *	Seg Line Length	21.5

* Seg dimensions vary slightly as a function of add power. Nominal value only shown.

Recommended Base Curve Selection Chart:



Product Markings: None

Document Number: 0102069.FS2

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Reviewed by: Geoff Riley, 20 Jul 2017

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PRODUCT FACT SHEET



Product Name	synchrony Semi-Finished FLAT-TOP Trifocal 76 x 7 x 28mm 1.5 Photochromic
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1. Customer Product Codes

CAT Code:	LGC:	LGC Description:	Notes:	FDA:
C25	L6852	SYNC SF T FTT28 15 PH GRY HC B--	Country of Origin required on Label	US FDA disclaimer Required

2. Product Range:

Nominal Diameter (mm)	Nominal Base Curve (D)	Add Power Range (D)	Rx Range Recommended (D)
76	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

3. Material & Coating Specifications:

Type	1.5 Photochromic
Refractive Index	$n_d = 1.502$ $n_e = 1.504$
Abbe Number	$v_d = 54$ $v_e = 52$
Density	1.18 g/cm ³
Luminous Transmittance (clear state)	≥ 87%
UV Protection (ISO)	Coated, Activated : 2.0 mm Centre Thickness: UVA : 100 %, UVB : 100 %
Coating Type	Hard Coated

4. Lens Geometry: Curves measured in 1.530 Index, at the Geometric Centre

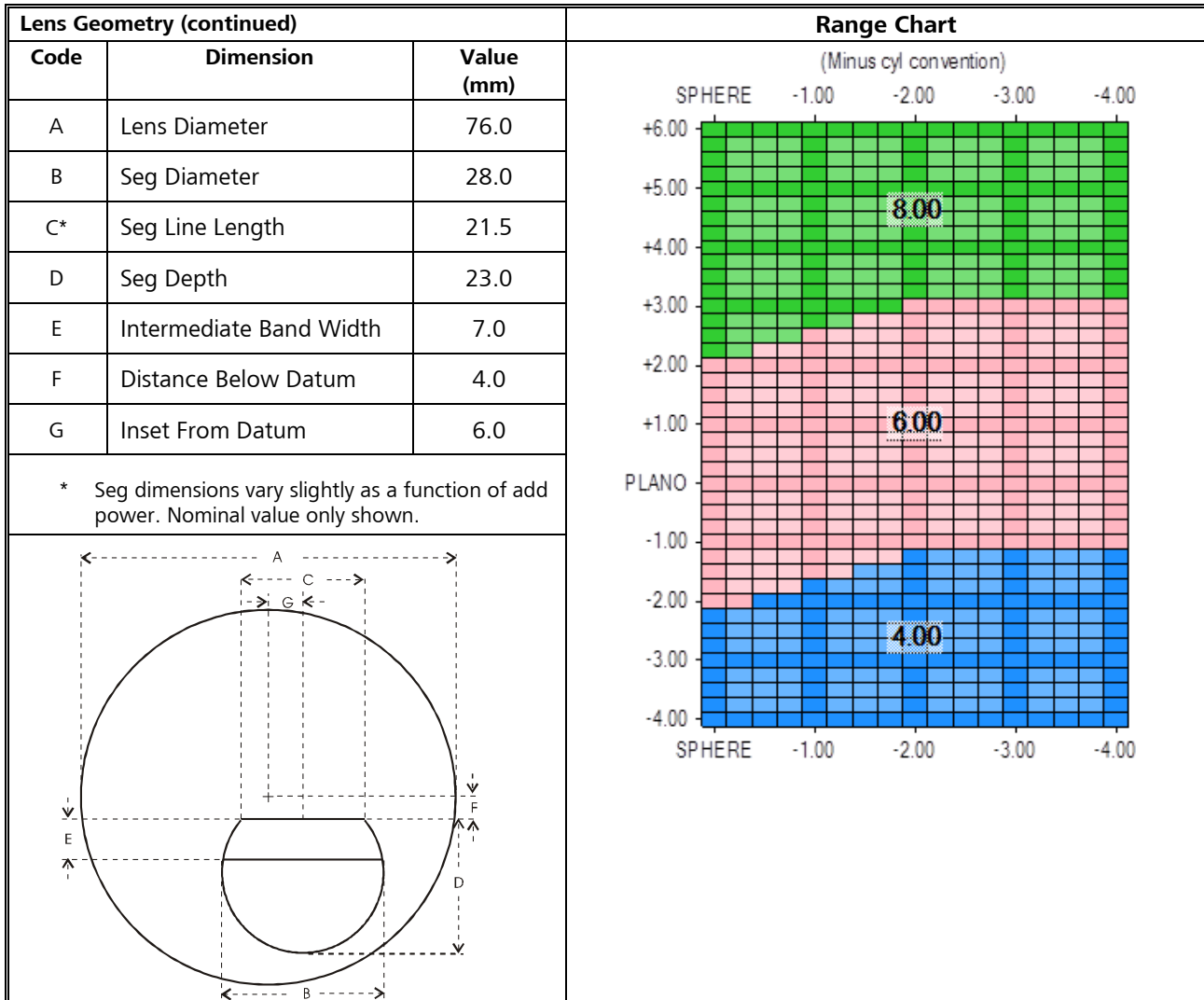
Nominal Base	True Front Curve (D)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (mm) (± 1.0mm)	Nominal Edge Thickness (mm)	Nominal Packaged weight (g)
4.00	3.68	144.02	-6.00	11.4	14.7	86
6.00	5.89	89.98	-6.00	8.9	9.0	66
8.00	8.01	66.17	-6.00	12.4	9.0	77

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PRODUCT FACT SHEET



Product Name synchrony Semi-Finished FLAT-TOP Trifocal 76 x 7 x 28mm 1.5 Photochromic



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

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

* Thicknesses are based on whichever is the limiting factor

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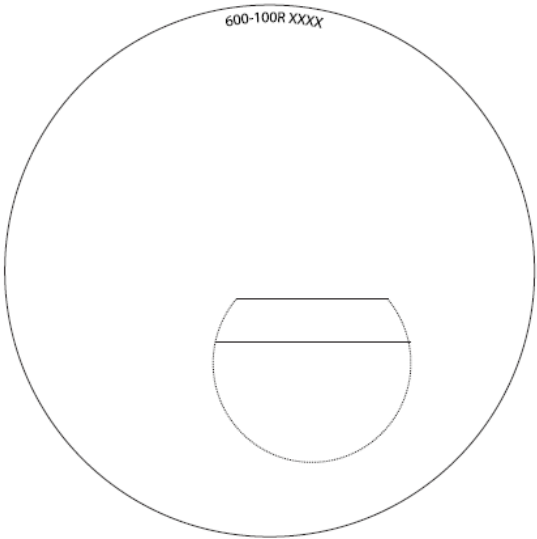
PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished FLAT-TOP Trifocal 76 x 7 x 28mm 1.5 Photochromic

6. Product Markings: Samples

Permanent Markings – Front Surface	Permanent Markings – Back Surface
	

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PRODUCT FACT SHEET



Product Name synchrony Semi-Finished Flat-Top Trifocal 7 x 28mm 1.5 Transitions Signature VII

Customer Product Codes

Product	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
Gray HC	V95	L6426	SYNC SF T FTT28 15 TR GRY HC DE-	COO required	Yes, disclaimer required

Product Range:

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 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)	UVA : 100 %, UVB : 100 % Coated & Activated, 2.0 mm Centre Thickness
Coating Type	Hard Coated

Lens Geometry:

			Code	Description	Value (mm)	Tolerance (mm)
			A	Nominal Diameter	74 / 76	±0.5
			B	Seg Diameter	28.0	±0.3
			C	Seg Depth	23.0	±0.5
			D	Distance Below Datum	4.0	±0.3
			E	Inset From Datum	6.0	±1.0
			F *	Seg Line Length	21.5	
			G	Intermediate band	7.0	±0.3
			* Seg dimensions vary slightly as a function of add power. Nominal value only shown. ** Blank thickness is determined by centre thickness . Surfacing settings are based on centre thickness			
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	11.4	14.7	
6.00	5.92	89.53	-6.00	8.9	9.0	
8.00	8.01	66.17	-6.00	12.4	9.0	

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PRODUCT FACT SHEET



Product Name synchrony Semi-Finished Flat-Top Trifocal 7 x 28mm 1.5 Transitions Signature VII

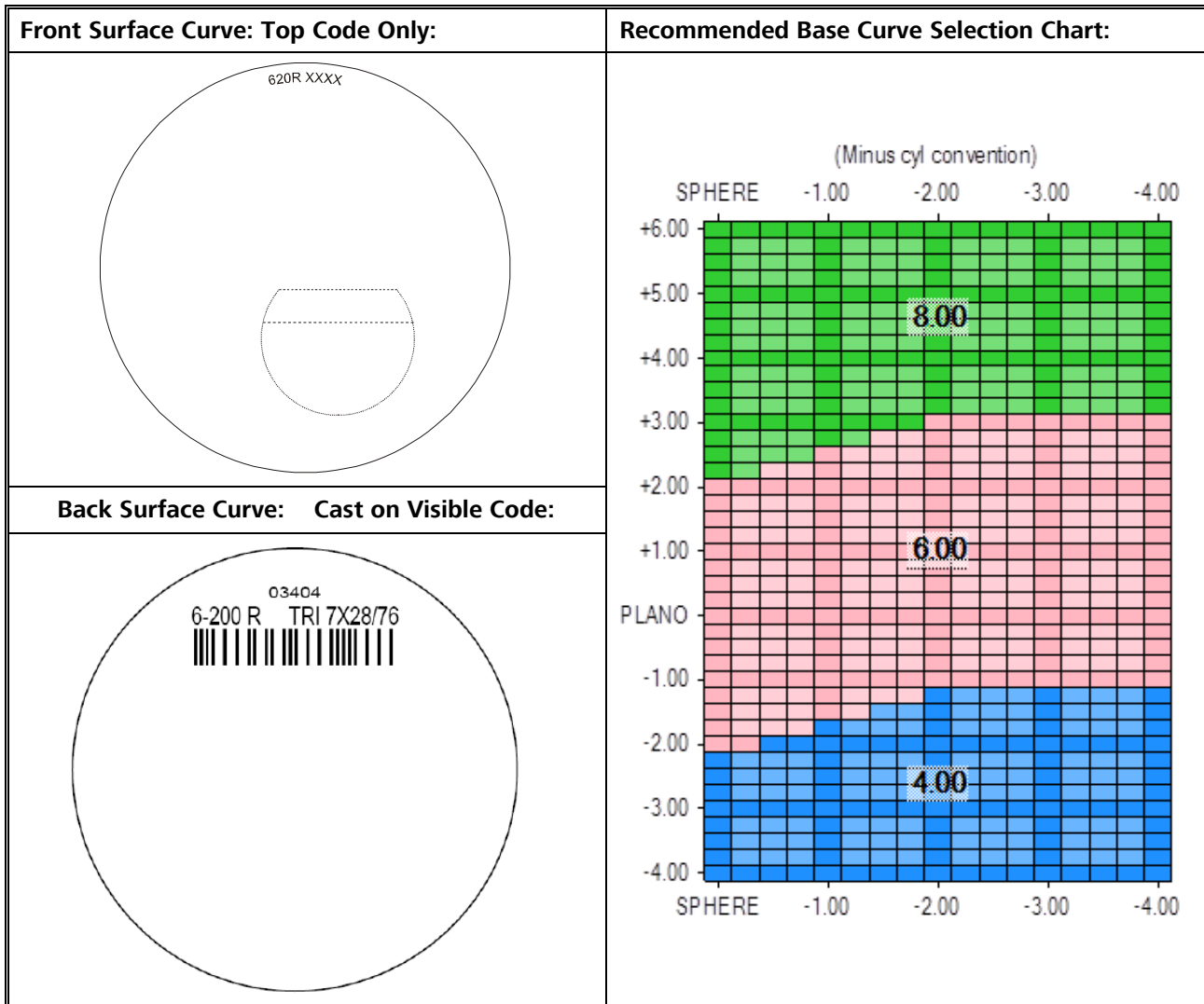
Surfacing: Recommended centre & edge thicknesses for all regions:

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	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 Markings:

Ink Markings: None



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PRODUCT FACT SHEET



Product Name synchrony Semi-Finished Flat-Top Trifocal 72 x 7 x 28mm 1.5

Customer Product Codes

Product	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
Uncoated	227	L2059	SYNC SF T FTT28 15 UNC ---	COO required	Yes, disclaimer required
Hard Coated	512	L2135	SYNC SF T FTT28 15 HC ---		

Product Range:

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

Material & Coating Specifications:

Type	1.5 Polymer
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	Uncoated & Hard Coated

Lens Geometry:

			Code	Description	Dimension (mm)
			A	Nominal 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
			* Seg dimensions vary slightly as a function of add power. Nominal value only shown.		
Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0mm)	Nominal Edge Thickness (mm)
2.50	2.15	246.51	-6.00	11.0	16.0
4.00	3.68	144.02	-6.00	9.9	13.0
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

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PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished Flat-Top Trifocal 72 x 7 x 28mm 1.5

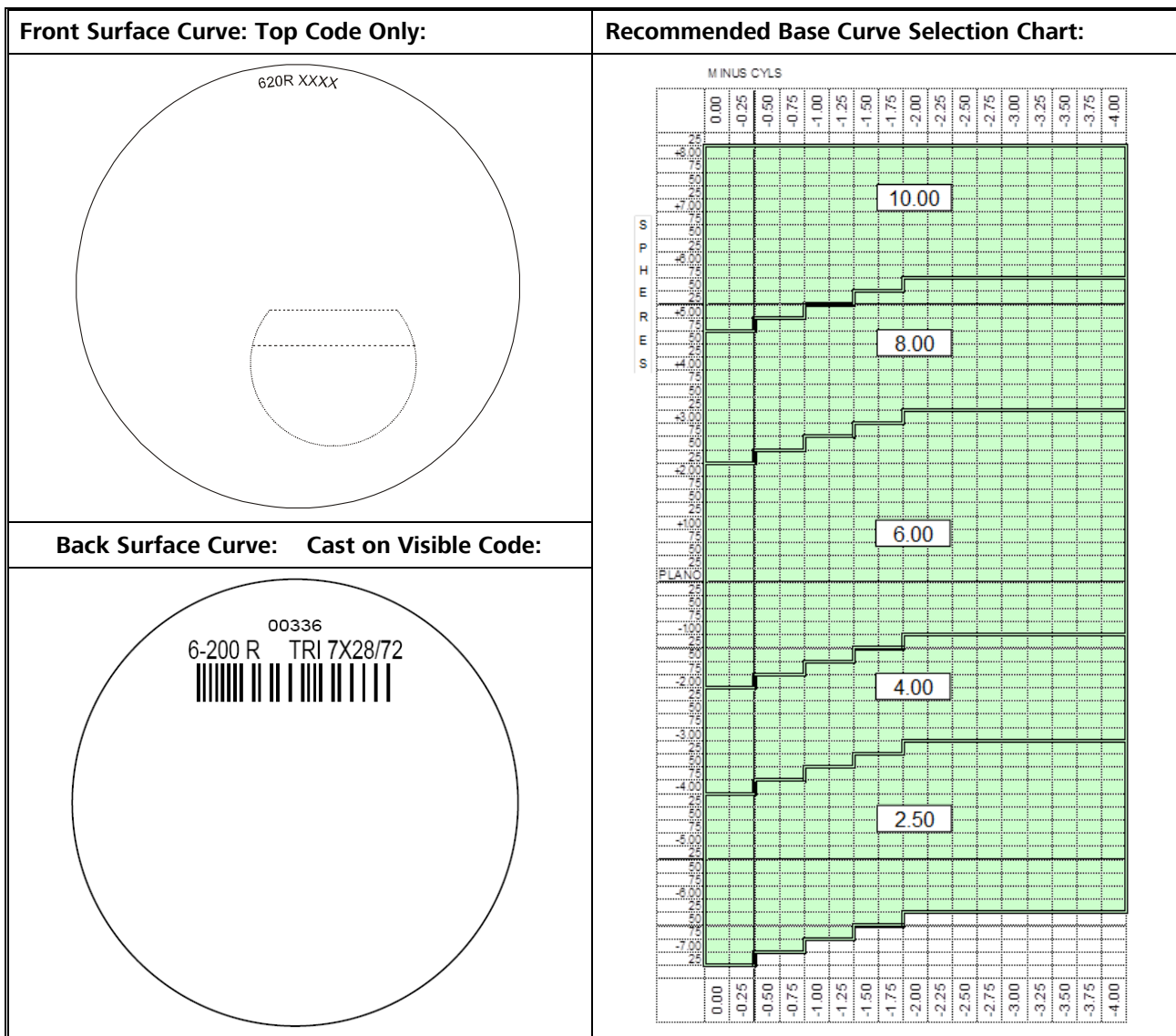
Surfacing: Recommended centre & edge thicknesses for all regions:

Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	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			0.5

* Thicknesses are based on whichever is the limiting factor

Product Markings:

Ink Markings: None



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PRODUCT FACT SHEET



Product Name synchrony Semi-Finished Flat-Top Trifocal 72 x 8 x 35mm 1.5

Customer Product Codes

Product	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
Uncoated	277	L2077	SYNC SF T FTT35 15 UNC ---	COO required	Yes, disclaimer required
Hard Coated	967	L2224	SYNC SF T FTT35 15 HC ---		

Product Range:

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

Material & Coating Specifications:

Type	1.5 Polymer
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	Uncoated & Hard Coated

Lens Geometry:

			Code	Description	Dimension (mm)
			A	Nominal 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
			* Seg dimensions vary slightly as a function of add power. Nominal value only shown.		
Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0mm)	Nominal Edge Thickness (mm)
4.00	3.68	144.02	-6.00	9.9	13.0
6.00	5.92	89.53	-6.00	7.9	8.0
8.00	8.01	66.17	-6.00	11.5	8.5

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PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished Flat-Top Trifocal 72 x 8 x 35mm 1.5

Surfacing: Recommended centre & edge thicknesses for all regions:

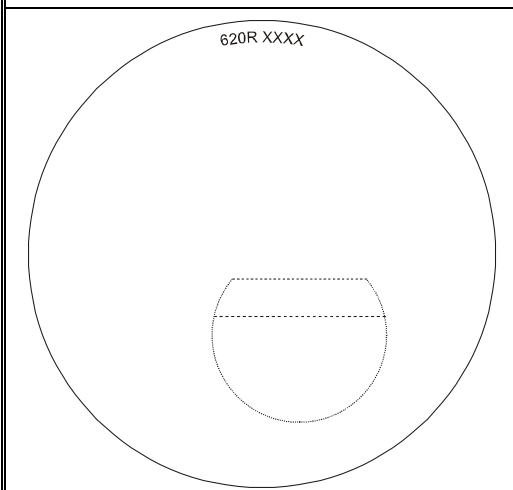
Power Range (D)	USA Market Minimum Centre Thickness (mm)	Int'l Market Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-4.00 to -2.00	2.0	1.5	
-1.75 to +2.00	2.0 or *	2.0 or *	1.0 *
+2.25 to +4.50			1.0

* Thicknesses are based on whichever is the limiting factor

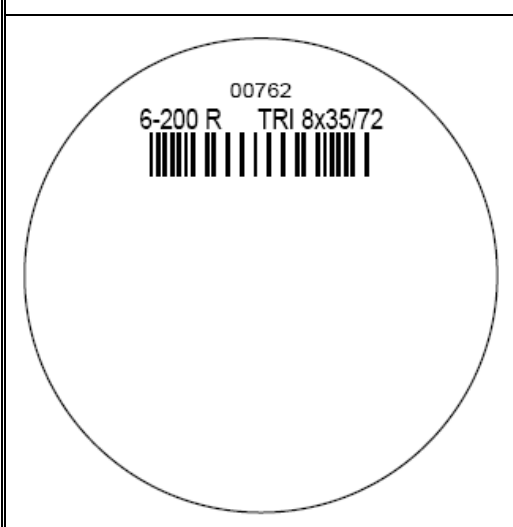
Product Markings:

Ink Markings: None

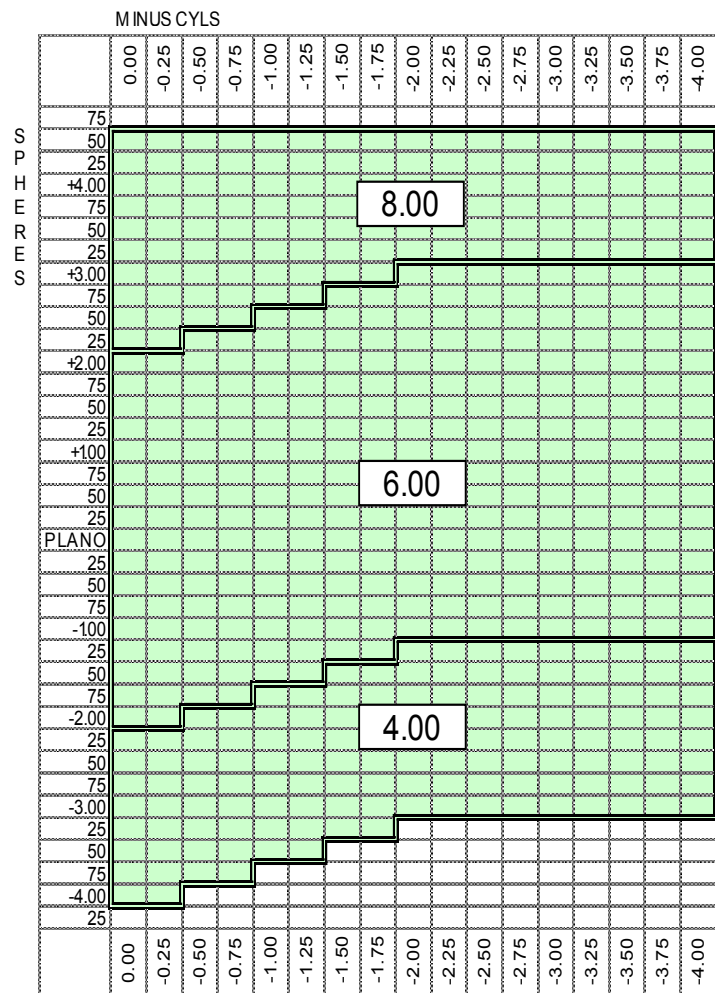
Front Surface Curve: Top Code Only:



Back Surface Curve: Cast on Visible Code:



Recommended Base Curve Selection Chart:



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PRODUCT FACT SHEET



Product Name synchrony Semi-Finished E-Line Trifocal 1.5

Customer Product Codes

Product	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
Uncoated (68mm)	054	L2023	SYNC SF T E-L 15 UNC ---	COO required	Yes, disclaimer required

Product Range:

Nominal 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 +4.00

Material & Coating Specifications:

Type	1.5 Polymer
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	Uncoated

Lens Geometry:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (mm) (± 1.0 mm) ^{Note 1}	Nominal Edge Thickness at 'D'(mm)
4.00	3.68	144.02	-6.00	10.6	12.0
6.00	5.92	89.53	-6.00	10.8	9.5

Note 1: These values are based on the 200 Add power for each base. The Higher Adds will typically have a thicker centre thickness, but should still be acceptable even if thicker than tolerance

	Code	Description	Dimension (mm)
	A	Nominal Diameter	68
	B	Distance Below Datum	Nil
	C	Intermediate Band Width	7.0
	D	Intermediate Inset	0.00
	E	Near Inset	0.00

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Product Name

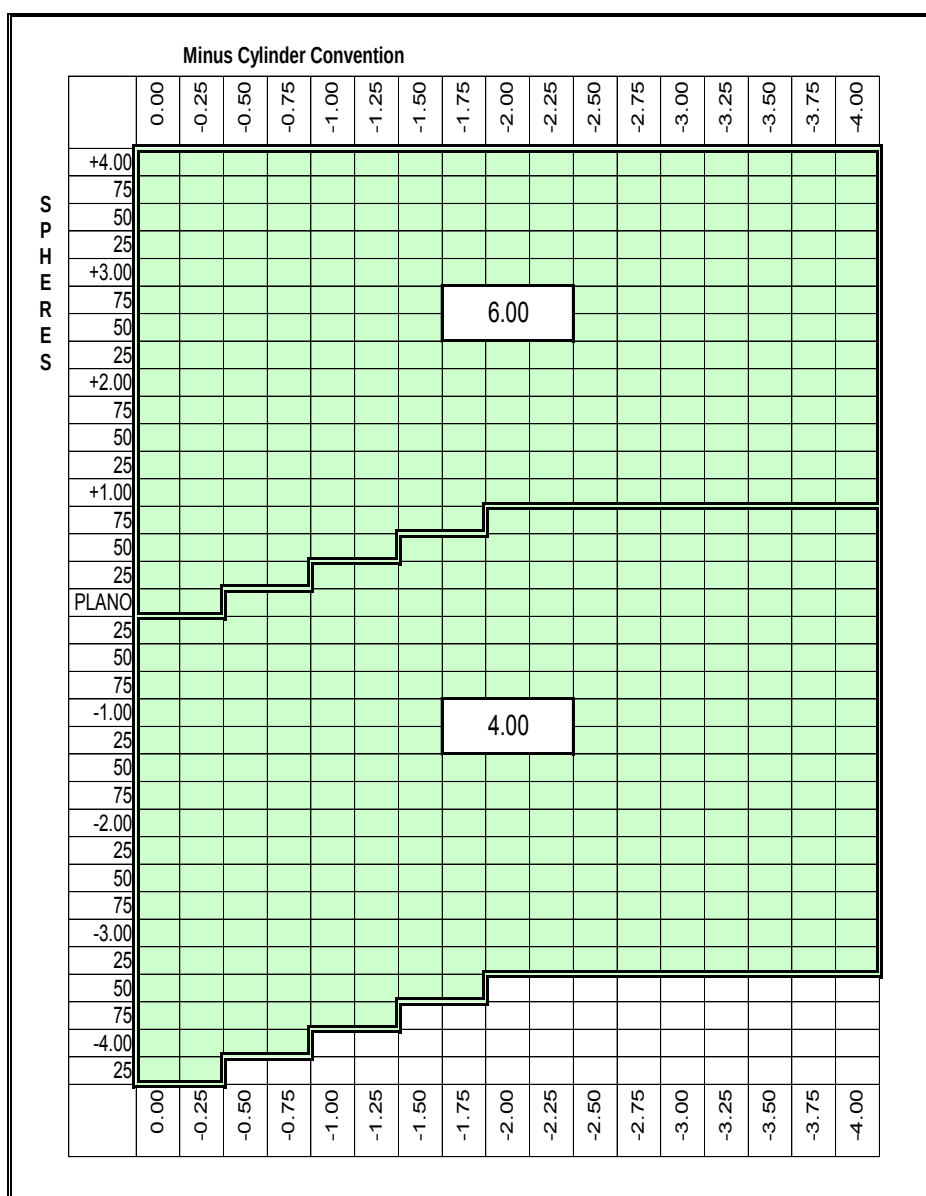
synchrony Semi-Finished E-Line Trifocal 1.5

Surfacing: Recommended centre & edge thicknesses for all regions:

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

* Thicknesses are based on whichever is the limiting factor

Recommended Range Chart:



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PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished Flat-Top Trifocal 71 x 7 x 28mm
1.523 Mineral White & Photogray Extra

Customer Product Codes

Product:	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
White	061	L2027	SYNC SF T FTT28 M15 UNC ---	COO required	Yes, disclaimer required
PGX	062	L2028	SYNC SF T FTT28 M15 PH GRY UNC G--		

Product Range:

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	3.00	-4.00	to	-2.25
71	6.25	1.50	to	3.00	-2.00	to	+2.00
71	8.25	1.50	to	3.00	+2.25	to	+5.50

Material & Coating Specifications:

Type	White Glass	PhotoGray Extra Glass
Refractive Index	$n_d = 1.523$ $n_e = 1.525$	$n_d = 1.523$ $n_e = 1.525$
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)	UVA : 20 %, UVB : 79 % 1.5 mm Centre Thickness	UVA : 97 %, UVB : 100 % Activated, 1.5 mm Centre Thickness
Coating Type	Uncoated	

Lens Geometry:

Nominal Base	True Front Curve (1.530) (D)	True Front Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0 mm)	Nominal Edge Thickness (mm)
2.00	2.00	265	-6.00	8.7	13.3
4.25	4.15	127.71	-6.00	8.0	9.9
6.25	6.20	85.48	-6.00	7.1	6.3
8.25	8.17	64.87	-6.00	10.0	5.8

Surfing: Recommended centre & edge thicknesses for all regions:

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
-7.00 to -1.00	2.0	
-0.75 to +2.75	2.0*	1.7*
+3.00 to +5.50		1.7

* Thicknesses are based on whichever is the limiting factor

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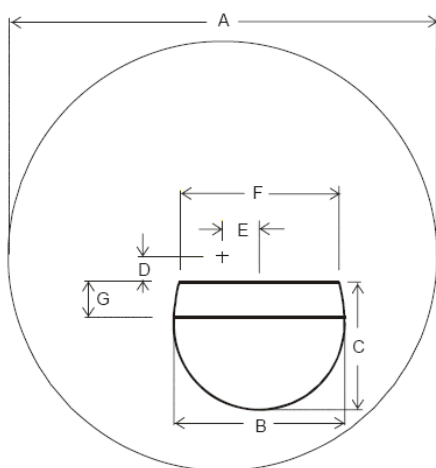
PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished Flat-Top Trifocal 71 x 7 x 28mm
1.523 Mineral White & Photogray Extra

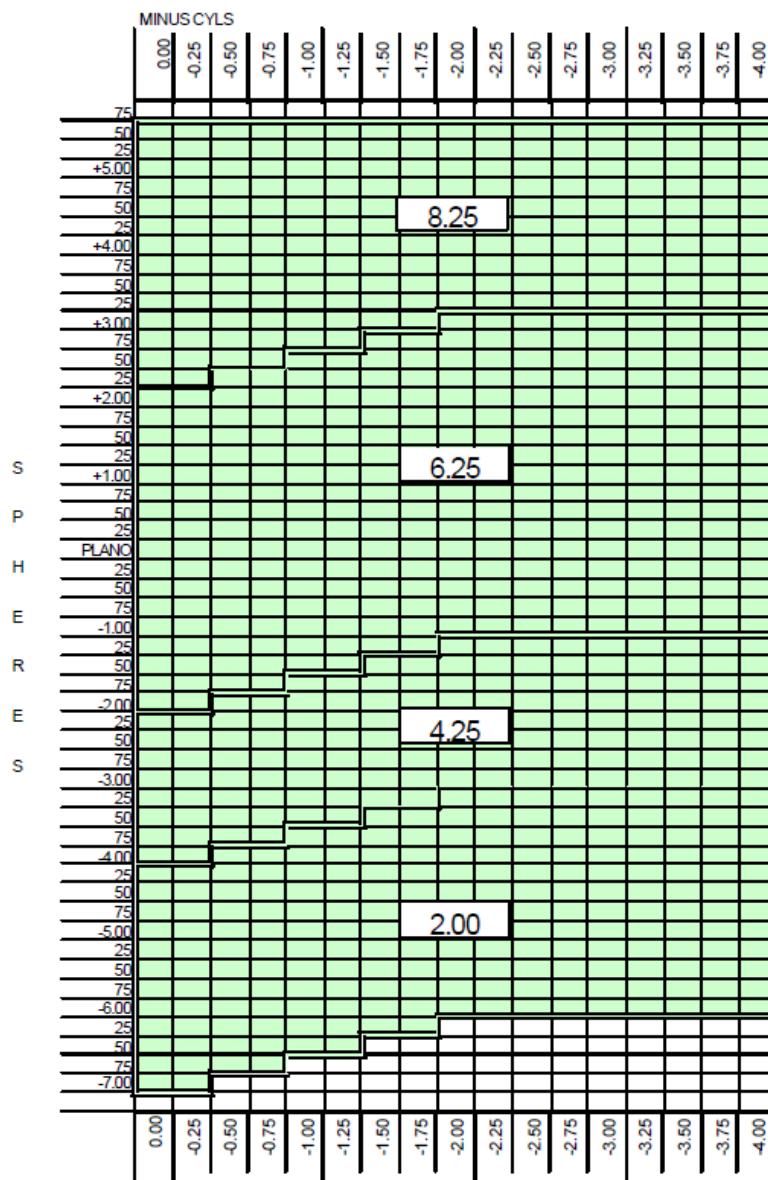
Lens Geometry continued:



Code	Description	Value (mm)
A	Nominal Diameter	71
B	Seg Diameter	28.0
C	Seg Depth	23.0
D	Distance Below Datum	2.5
E	Inset From Datum	7.0
F *	Seg Line Length	21.5
G	Intermediate band	7.0

* Seg dimensions vary slightly as a function of add power. Nominal value only shown.

Recommended Base Curve Selection Chart:



Product Markings: None

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