



Single Vision - Fact Sheets

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Product Name	synchrony Semi-Finished SV AS 1.67
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Customer Product Codes

Product:	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
HC	767	L2154	SYNC SF SV AS 167 HC -D-	Country of Origin required on Label	Yes, US FDA disclaimer Required

Product OPCs

Nominal Base Curve	L2154 HC	Nominal Base Curve	L2154 HC
0.50	5111200019	5.25	5111200068
1.25	5111200027	6.25	5111200076
2.50	5111200035	7.25	5111200084
3.25	5111200043	8.25	5111200092
4.00	5111200050	9.25	5111200100

Product Range: All Product 73mm diameter

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

Material & Coating Specifications:

Type	1.67 (MR10)
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)	UVA : 100 %, UVB : 100 % Coated & Activated, 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 (± 1.0 mm)	Nominal Edge Thickness (mm)	Packaged Weight (g)
0.50	0.70	757.14	-6.00	9.5	16.5	79
1.25	1.21	438.02	-6.00	6.8	13.0	65
2.50	2.68	197.76	-6.00	5.5	9.9	55
3.25	2.94	180.27	-6.00	6.0	10.2	55
4.00	3.63	146.01	-6.00	7.1	10.7	55
5.25	5.03	105.37	-6.00	8.5	10.3	56
6.25	6.35	83.47	-6.00	9.0	8.9	58
7.25	7.37	71.91	-6.00	10.3	8.7	62
8.25	8.39	63.17	-6.00	10.7	7.4	60
9.25	9.41	56.32	-6.00	12.0	7.0	59

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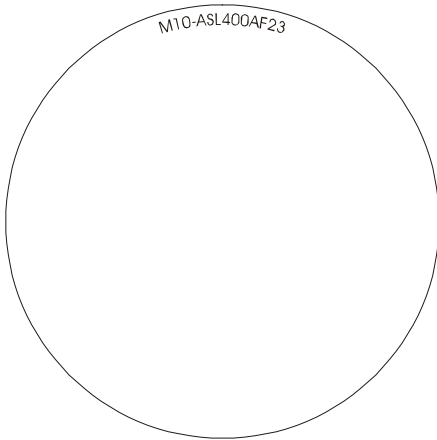
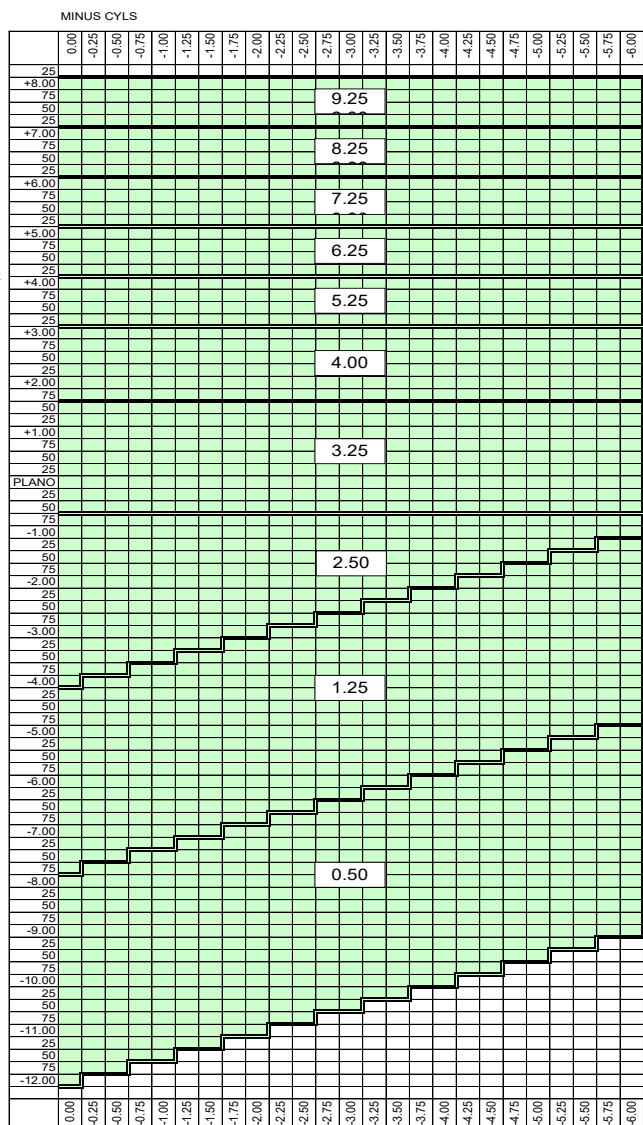

Product Name	synchrony Semi-Finished SV AS 1.67
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Surfacing: Recommended centre & edge thicknesses for all regions:

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

* Thicknesses are based on whichever is the limiting factor

Product Markings: **Ink Markings:** None

<p>Front Surface Curve: Top Code Only</p> 	<p>Recommended Base Curve Selection Chart:</p> 
<p>Back Surface Curve: Cast on Visible Code:</p>	
	

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Product Name ZEISS SF SV AS 1.67 PhotoFusion X

1. Customer Product Codes:

Product	LGC	LGC Description	CAT Code
PFX Brown HA	L7726	ZEISS SF SV AS 167 PFX BRN HA VB-	K66
PFX Grey Black HA	L7724	ZEISS SF SV AS 167 PFX GRYB HA VB-	K65
PFX Extra Grey B HA	L7854	ZEISS SF SV AS 167 PFX EGB HA VB-	M35

OPCs:

Base Code	CT	BRN HA L7726	GRY HA L7724	EGB HA L7854
0.50	9.50	5404404385	5404404195	7900048898
1.25	6.80	5404404393	5404404203	7900048906
2.50	5.50	5404404401	5404404211	7900048914
3.25	6.00	5404404419	5404404229	7900048922
4.00	7.10	5404404427	5404404237	7900048930
5.25	8.50	5404404435	5404404245	7900048948
6.25	9.00	5404404443	5404404252	7900048955
7.25	10.30	5404404450	5404404260	7900048963
8.25	10.70	5404404468	5404404278	7900048971
9.25	12.00	5404404476	5404404286	7900048989

2. Material Specifications:

Type	ZEISS BlueGuard 1.67 MR-7 Thio-Urethane Resin Polymer with PhotoFusion X Coating Treatment
Refractive Index	$n_d = 1.660$ $n_e = 1.665$
Abbe Number	$v_d = 31$ $v_e = 31$
Density	1.36 g/cm ³
UV Protection (ISO)	UVA: 100 %, UVB: 100 % 2.0 mm Centre Thickness
Coating Type	Hard coat

3. Design: Aspheric

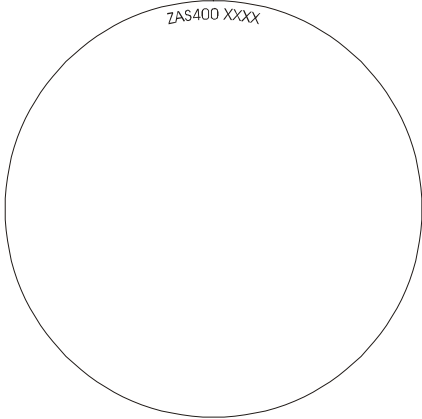


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Product Name	ZEISS SF SV AS 1.67 PhotoFusion X
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4. Product Markings: Ink Markings: none

Front Surface Curve: Visible Top Code. E.g. ZAS400 XXXX	Back Surface Curve: Cast on Visible Code.
	<p>Initial Production</p> 
	<p>New moulds, running change, to have code similar to this</p> 

5. Product Range:

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

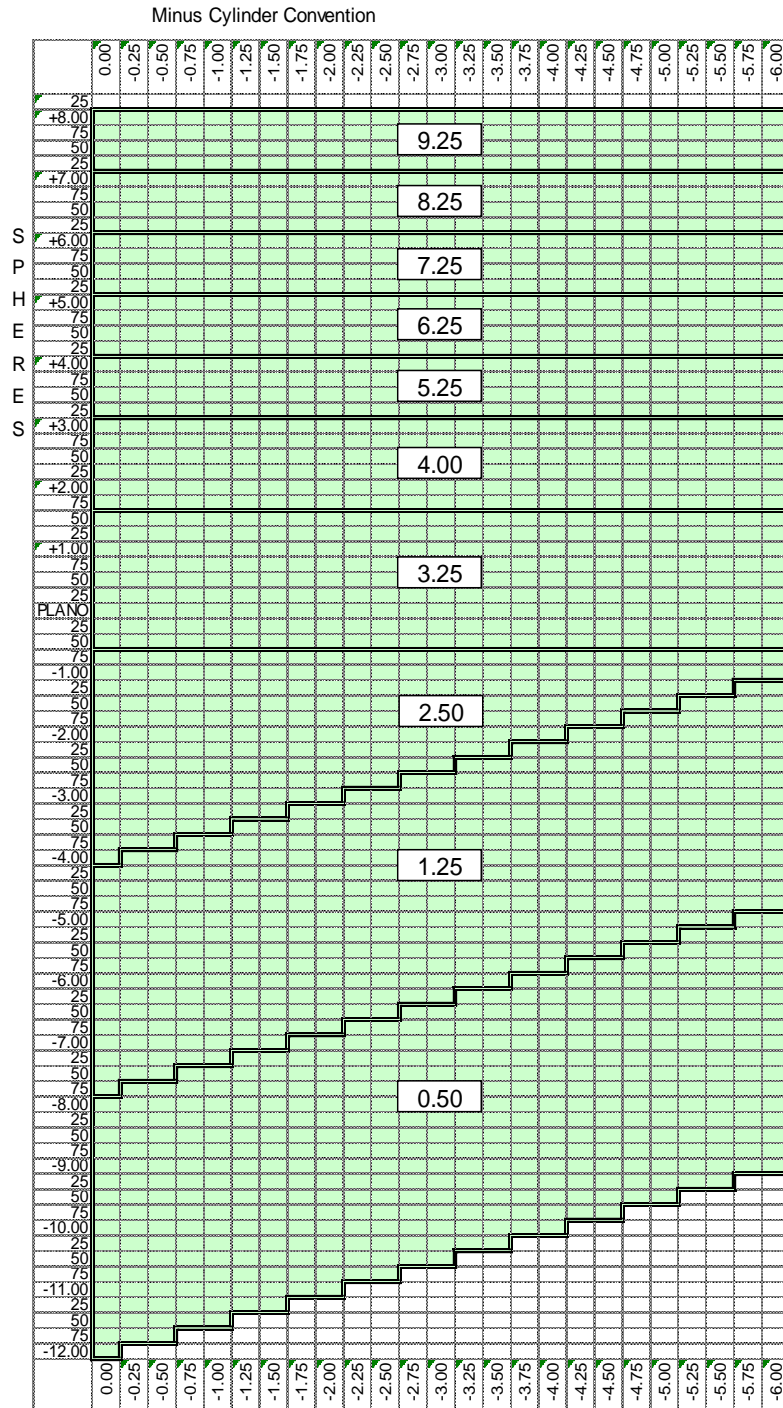
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Product Name	ZEISS SF SV AS 1.67 PhotoFusion X
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6. Recommended Range Chart:



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Product Name

ZEISS SF SV AS 1.67 PhotoFusion X

7. Lens Geometry

Nominal Base (D)	True Front Curve (D)	TFC Radius (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0 mm)	Nominal Edge Thickness (mm)
0.50	0.59	898.31	-6.00	9.5	16.5
1.25	1.13	469.03	-6.00	6.8	13.0
2.50	2.54	208.66	-6.00	5.5	9.9
3.25	2.83	187.28	-6.00	6.0	10.2
4.00	3.56	148.88	-6.00	7.1	10.7
5.25	4.94	107.29	-6.00	8.5	10.3
6.25	6.21	85.35	-6.00	9.0	8.9
7.25	7.29	72.70	-6.00	10.3	8.7
8.25	8.27	64.09	-6.00	10.7	7.4
9.25	9.28	57.11	-6.00	12.0	7.0

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PRODUCT FACT SHEET



Product Name	synchrony Semi-Finished SV SPH 1.67 BLP HC
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1. **Product Name:** synchrony Semi-Finished SV SPH 1.67 BLP HC

2. **Customer Product Codes:**

CAT Code	LGC	LGC Description
K36	L7645	SYNC SF SV SPH 167 BLP HC VB-

OPCs:

Base Curve	Hard coated LGC: L7645
0.50	5404239484
1.30	5404239492
1.90	5404239500
2.41	5404239518
3.40	5404239526
4.60	5404239534
5.60	5404239542
6.40	5404239559
6.90	5404239567
7.90	5404239575
8.50	5404239583
9.50	5404239591
10.80	5404239609

3. **Material Specifications:**

Type	1.67 MR-7 Thio-Urethane Resin Polymer Blue Light Protection
Refractive Index	$n_d = 1.660$ $n_e = 1.665$
Abbe Number	$v_d = 31$ $v_e = 31$
Density	1.36 g/cm ³
UV Protection (ISO)	UVA: 100 %, UVB: 100 % 2.0 mm Centre Thickness
Coating Type	HC

4. **Design:** Spherical

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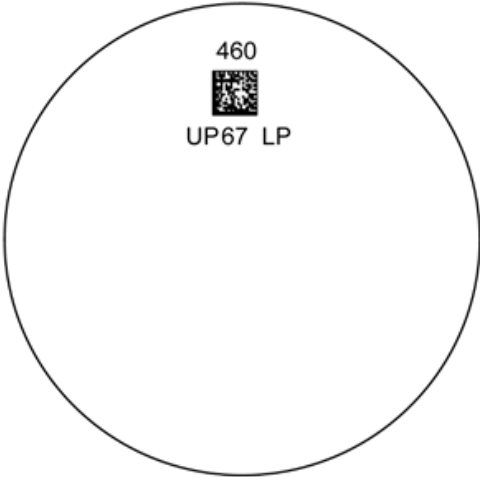
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Product Name

synchrony Semi-Finished SV SPH 1.67 BLP HC

5. Product Markings:

Front (Casting) Surface: Top Code As viewing the front side of blanks	Back (Non-Casting) Surface laser engraved code As viewing the front side of blanks
None required	

6. Lens Geometry:

Diameter (mm)	Nominal Base (D)	True Front Curve (D)	TFC Radius (mm)	Nominal Back Curve (D)	Centre Thickness ($\pm 1.0\text{mm}$)	Nominal Edge Thickness (mm)
72	0.50	0.41	1292.68	-6.03	9.6	18.1
72	1.30	1.00	530.00	-6.03	10.4	17.6
72	1.90	1.50	353.33	-6.03	10.8	17.5
72	2.41	2.03	261.08	-6.03	11.5	17.6
72	3.40	2.73	194.14	-6.03	8.6	14.1
72	4.60	3.83	138.38	-4.00	8.6	10
72	5.60	4.57	115.97	-4.00	7.7	8.5
72	6.40	5.07	104.54	-4.00	8.3	8.4
72	6.90	5.38	98.51	-4.00	8.6	8.4
72	7.90	6.09	87.03	-4.00	9.4	8.1
72	8.50	6.83	77.60	-4.00	10.8	8.8
72	9.50	7.62	69.55	-4.00	11.8	8.0
72	10.80	8.64	61.34	-4.00	13.2	8.2

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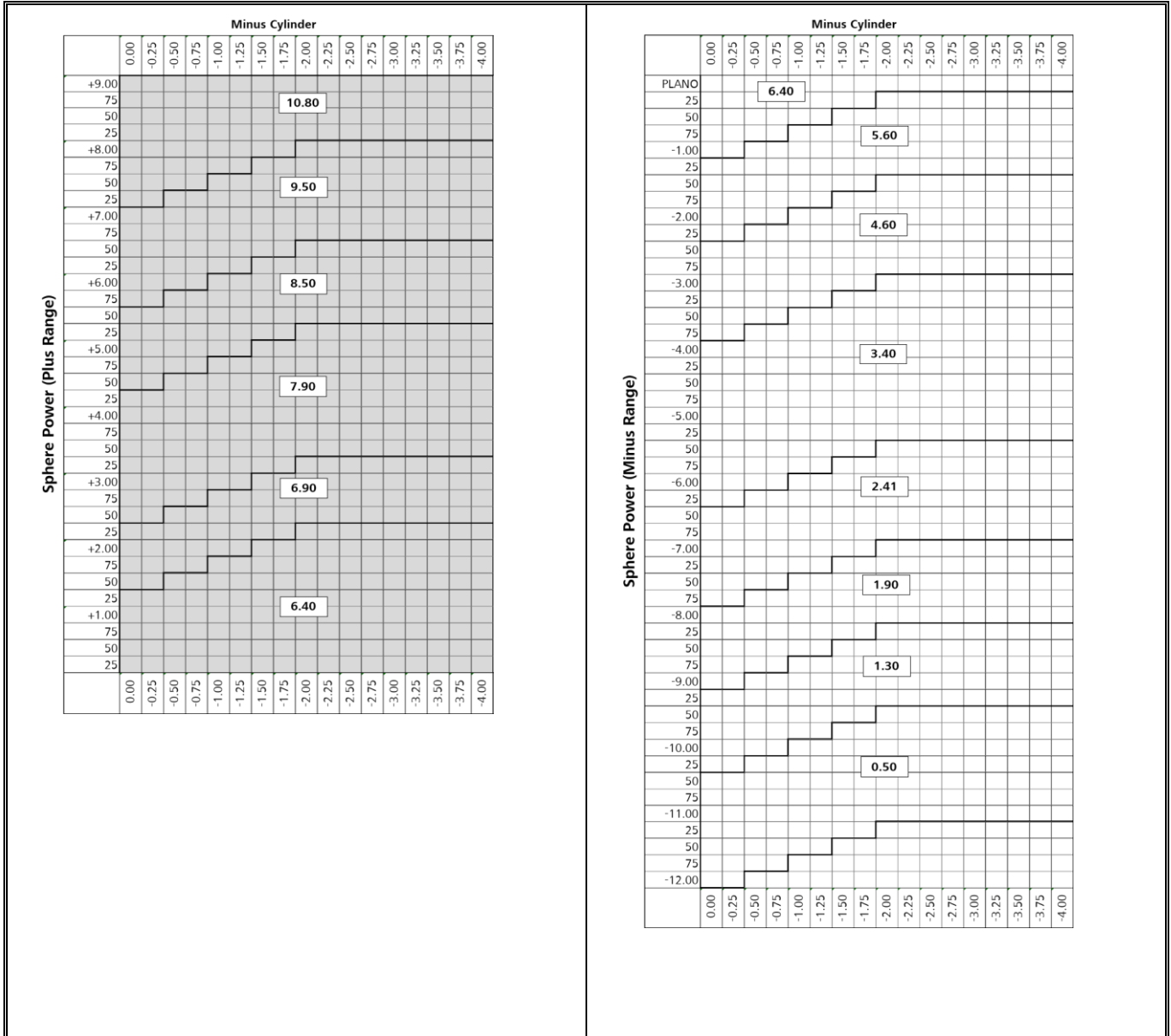
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Product Name

synchrony Semi-Finished SV SPH 1.67 BLP HC

7. Recommended Base Curve Selection Charts:



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PRODUCT FACT SHEET



Product Name	ZEISS Semi-Finished Aspheric Single Vision 1.59 Light Protection
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1. Customer Product Codes:

Product:	LGC:	LGC Description:	CAT Code:
Coated HA	L7038	ZEISS SF SV AS 159 HA U--	A25
Coated PG	L7039	ZEISS SF SV AS 159 PG U--	A26

OPC's

Base Curve	HA Coated	PG Coated
1.00	5402543317	5402561707
2.00	5402543325	5402561715
3.00	5402543333	5402561723
3.75	5402543341	5402561731
4.75	5402543358	5402561749
5.75	5402543366	5402561756
6.50	5402543374	5402561764
7.25	5402543382	5402561772
8.00	5402543390	5402561780

2. Product Range

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)
80	1.00	-10.00 to -6.00
80	2.00	-5.75 to -4.00
80	3.00	-3.75 to -2.00
80	3.75	-1.75 to 0.00
80	4.75	+0.25 to +2.00
80	5.75	+2.25 to +3.00
80	6.50	+3.25 to +4.00
80	7.25	+4.25 to +5.00
80	8.00	+5.25 to +6.00

3. Material & Coating Specifications:

Type	1.59 Polycarbonate ZEISS Light Protection
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, Hart and PG

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Product Name ZEISS Semi-Finished Aspheric Single Vision 1.59 Light Protection

4. Lens Geometry:

Nominal Base (D)	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0 mm)	Nominal Edge Thickness at 'A' (mm)
1.00	1.07	495.33	-5.75	10.7	18.7
2.00	1.99	266.33	-5.75	10.7	17.5
3.00	2.88	184.03	-5.75	10.7	16.6
3.75	3.77	140.58	-5.75	10.7	15.0
4.75	4.72	112.29	-5.75	10.7	13.7
5.75	5.59	94.81	-5.75	10.7	12.3
6.50	6.44	82.30	-8.00	9.8	13.8
7.25	7.24	73.20	-8.00	10.4	12.5
8.00	8.09	65.51	-8.00	12.0	12.5

5. Product Markings:

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

6. 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	1.5	1.2	
-1.75 to +2.00	2.0 or *	2.0 or *	1.3 *
+2.25 to High Plus			1.3

* Thicknesses are based on whichever is the limiting factor

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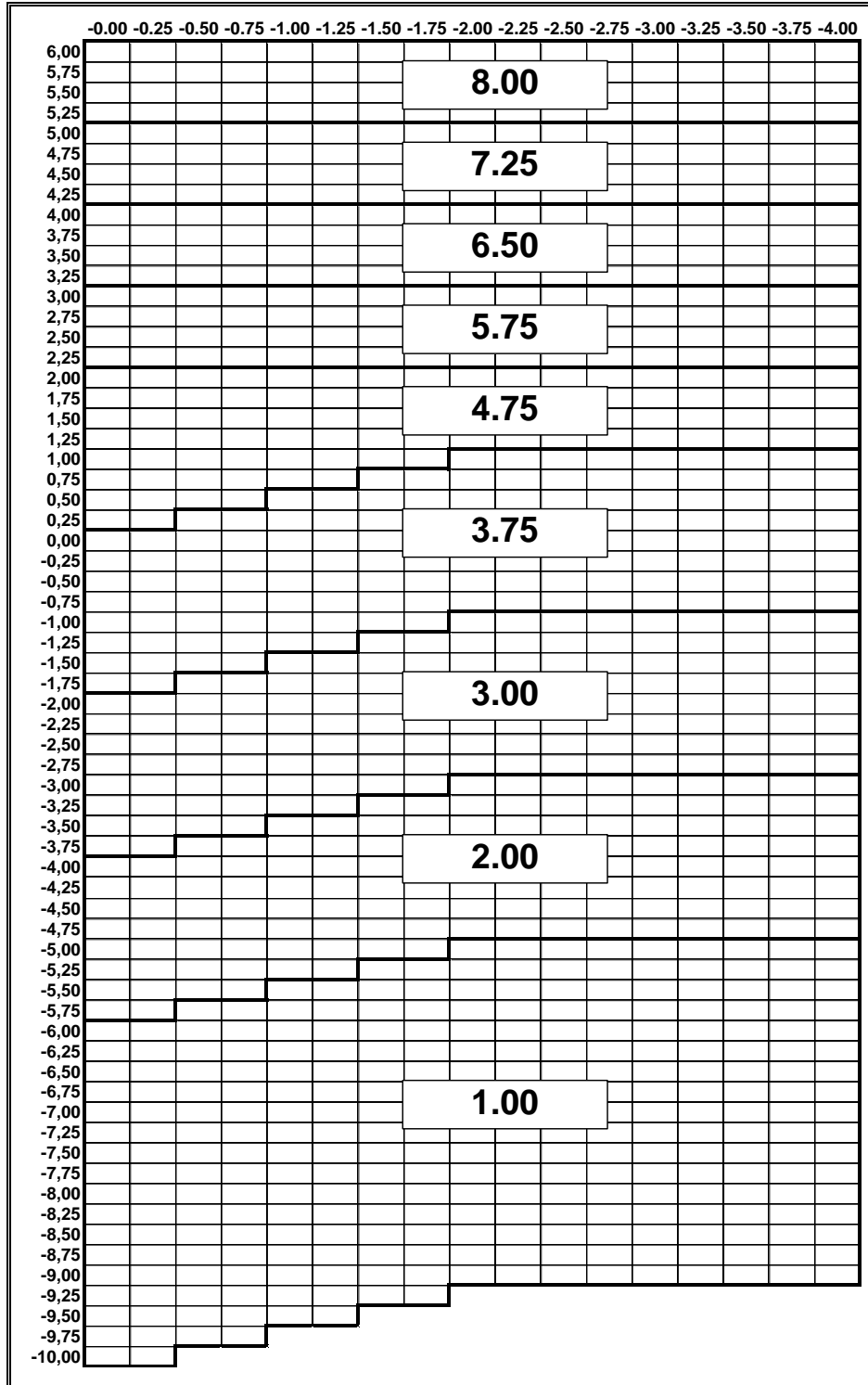
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Product Name

ZEISS Semi-Finished Aspheric Single Vision 1.59 Light Protection

7. Recommended Base Curve Selection Chart:



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PRODUCT FACT SHEET

Product Name	synchroNY Semi-Finished SV AS 1.59
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Customer Product Codes

Product:	CAT Code:	LGC:	LGC Description:	Notes:	FDA:
PG	782	L2195	SYNC SF SV AS 159 PG ---	Country of Origin required on Label	Yes, US FDA disclaimer Required
HC	327	L2089	SYNC SF SV AS 159 HC ---		

Product OPCs

Nominal Base Curve	L2195 PG	L2089 HC	Nominal Base Curve	L2195 PG	L2089 HC
1.00	0102201613	0102206513	5.75	0102201662	0102206562
2.00	0102201621	0102206521	6.50	0102201670	0102206570
3.00	0102201639	0102206539	7.25	0102201688	0102206588
3.75	0102201647	0102206547	8.00	0102201696	0102201704
4.75	0102201654	0102206554			

Product Range: All Product 80mm diameter

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

Material & Coating Specifications:

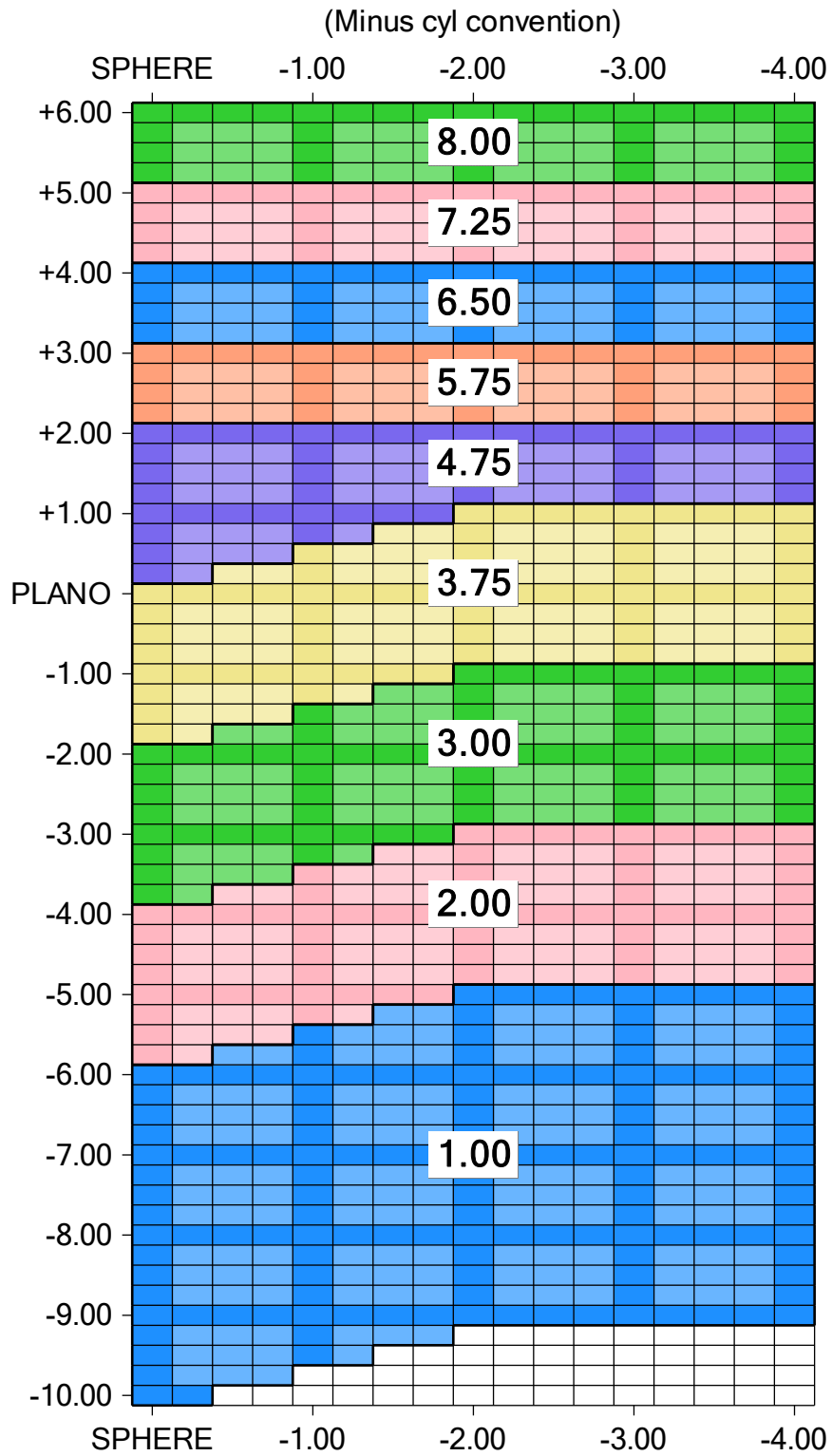
Type	1.59 Polycarbonate
Refractive Index	$n_d = 1.586$ $n_e = 1.590$
Abbe Number	$v_d = 30$ $v_e = 29$
Density	1.20 g/cm ³
UV Protection (ISO)	UVA : 100 %, UVB : 100 % Coated & Activated, 2.0 mm Centre Thickness
Coating Type	PG & Hard Coated

Lens Geometry:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Central Curve Sag @ 50mm (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0mm)	Nominal Edge Thickness (mm)	Packaged Weight (g)
1.00	1.07	495.33	0.63	-5.75	10.7	17.8	93
2.00	1.99	266.33	1.18	-5.75	10.7	16.5	89
3.00	2.88	184.03	1.71	-5.75	10.7	15.3	85
3.75	3.77	140.58	2.24	-5.75	10.7	13.9	81
4.75	4.72	112.29	2.82	-5.75	10.7	12.6	77
5.75	5.59	94.81	3.36	-5.75	10.7	11.2	73
6.50	6.44	82.29	3.89	-8.00	9.5	12.8	73
7.25	7.24	73.20	4.40	-8.00	10.4	12.2	74
8.00	8.09	65.51	4.96	-8.00	11.7	11.8	78

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RX Range Chart:



PRODUCT FACT SHEET



Product Name ZEISS Semi-Finished SV AS 1.59 PhotoFusion X

1. Customer Product Codes

Product	LGC	LGC Description	CAT Code
PFX Brown HA	L7725	ZEISS SF SV AS 159 PFX BRN HA V--	K64
PFX Grey Black HA	L7723	ZEISS SF SV AS 159 PFX GRYB HA V--	K63
PFX Extra Grey B	L7853	ZEISS SF SV AS 159 PFX EGB HA V--	M34

OPCs:

Base Curve	PFX Brown HA LGC: L7725	PFX Grey Black HA LGC: L7723	PFX Extra Grey B HA LGC: L7853
1.00	5404404294	5404404104	7900048807
2.00	5404404302	5404404112	7900048815
3.00	5404404310	5404404120	7900048823
3.75	5404404328	5404404138	7900048831
4.75	5404404336	5404404146	7900048849
5.75	5404404344	5404404153	7900048856
6.50	5404404351	5404404161	7900048864
7.25	5404404369	5404404179	7900048872
8.00	5404404377	5404404187	7900048880

2. Product Range: Refer also Base Curve Selection Chart section 6.

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)	
78	1.00	-10.00	to -6.00
	2.00	-5.75	to -4.00
	3.00	-3.75	to -2.00
	3.75	-1.75	to 0.00
	4.75	+0.25	to +2.00
	5.75	+2.25	to +3.00
	6.50	+3.25	to +4.00
	7.25	+4.25	to +5.00
8.00	+5.25	to +6.00	

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Product Name	ZEISS Semi-Finished SV AS 1.59 PhotoFusion X
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3. Material & Coating Specifications:

Type	ZEISS BlueGuard Polycarbonate Resin Polymer with PhotoFusion X coating treatment
Refractive Index	$n_d = 1.586$ $n_e = 1.590$
Abbe Number	$v_d = 30$ $v_e = 30$
Density	1.20 g/cm ³
UV Protection (ISO)	UVA: 100 %, UVB: 100 %
Coating Type	Hard Coated

4. Lens Geometry:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Central Curve Sag @ 50mm (mm)	Nominal Back Curve (D)	Centre Thickness (± 1.0mm)	Nominal Edge Thickness (mm)	Packaged Weight (g)
1.00	1.08	490.74	0.637	-5.75	10.7	17.8	93
2.00	2.00	265.00	1.182	-5.75	10.7	16.5	89
3.00	2.89	183.39	1.712	-5.75	10.7	15.3	85
3.75	3.78	140.21	2.247	-5.75	10.7	13.9	81
4.75	4.73	112.05	2.825	-5.75	10.7	12.6	77
5.75	5.60	94.64	3.362	-5.75	10.7	11.2	73
6.50	6.45	82.17	3.895	-8.00	9.8	12.8	73
7.25	7.26	73.00	4.414	-8.00	10.4	12.2	74
8.00	8.11	65.35	4.971	-8.00	12.0	11.8	78

5. Product Markings:

Front Surface : Top Visible Code E.g. ZL100A/C1690	Back Surface Curve Markings:

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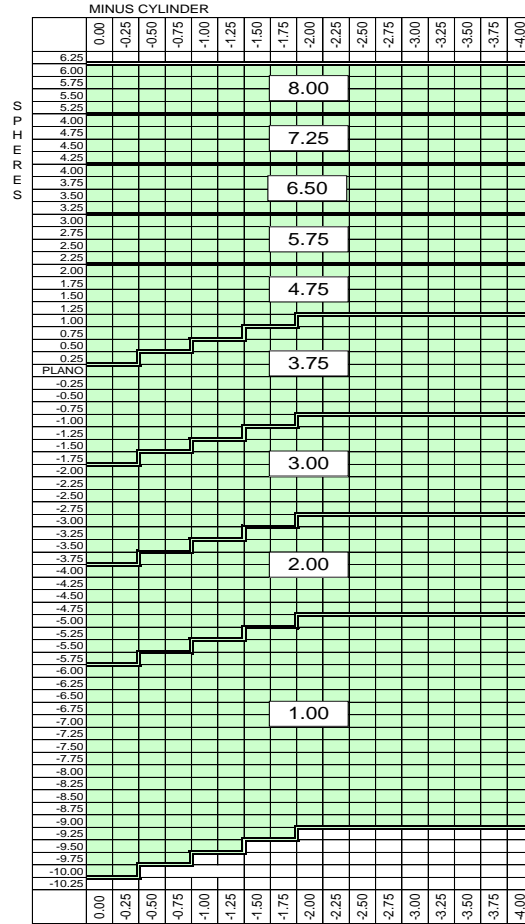
PRODUCT FACT SHEET



Product Name

ZEISS Semi-Finished SV AS 1.59 PhotoFusion X

6. Base Curve Selection Chart



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Reviewed by: Monika Anselm, 29 Sep 2022
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PRODUCT FACT SHEET



Product Name	synchrony Semi-Finished Single Vision SPH 1.59 Transitions XTRActive Polarized
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1. Customer Product Codes

Product	LGC	LGC Description	CAT Code
Grey HC	L7597	SYNC SF SV SPH 159 TXPL GRY HC I--	J82

OPCs:

Base Code	Grey HC LGC: L7597
1.50	5403403487
3.25	5403403495
4.25	5403403503
4.75	5403403511
5.50	5403403529
7.00	5403403537
7.50	5403403545
8.50	5403403552

2. Product Range: Refer also Base Curve Selection Chart section 6.

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)		
79	1.50	-10.00	to	-8.75
79	3.25	-8.50	to	-6.75
79	4.25	-6.50	to	-5.00
79	4.75	-4.75	to	-3.25
79	5.50	-3.00	to	+1.25
79	7.00	+1.50	to	+5.50
74	7.50	+5.75	to	+7.00
74	8.50	+7.25	to	+8.00

3. Material & Coating Specifications:

Type	Polycarbonate 1.59
Refractive Index	$n_d = 1.585$ $n_e = 1.590$
Abbe Number	$v_d = 30$ $v_e = 30$
Density	1.20 g/cm ³
UV Protection (ISO)	UVA: 100 %, UVB: 100 %
Coating Type	Hard Coated

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PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished Single Vision SPH 1.59 Transitions XTRActive Polarized

4. Lens Geometry:

Nominal Base (D)	Radius (mm)	True Front Curve (D)	Nominal Back Curve (D)	Centre Thickness (±0.5mm)	Nominal Edge Thickness (mm)
1.50	316.09	1.68	-6.10	8.7	15.9
3.25	164.10	3.23	-6.10	8.7	13.5
4.25	122.50	4.33	-6.10	9.1	12.2
4.75	109.70	4.83	-6.10	8.7	11.0
5.50	97.10	5.46	-6.10	9.6	10.9
7.00	75.10	7.06	-7.46	9.9	10.8
7.50	70.30	7.54	-6.10	9.0	6.8
8.50	61.60	8.60	-7.46	10.0	8.1

5. Product Markings:

Front Surface Ink Markings	Front Surface Semi-visible Markings	Back surface markings
<ul style="list-style-type: none"> Axis alignment ink marking indicating horizontal polarised axis orientation (Yellow) 	<ul style="list-style-type: none"> Cast on semi visible Code identifying material, base curve and unique ID. Due to the thickness of the coating treatment this code may become obscure Transitions applied semi-visible "T" symbols positioned 20mm from centre and ">,<" markings at the edge of the blank indicating horizontal polarised axis orientation 	<ul style="list-style-type: none"> Laser applied visible barcode and text indicating, Base Code, Barcode and number and Product Code. Mould tracking code eg C1234 Semi-visible Transitions applied 2d matrix code and text identifying base curve.

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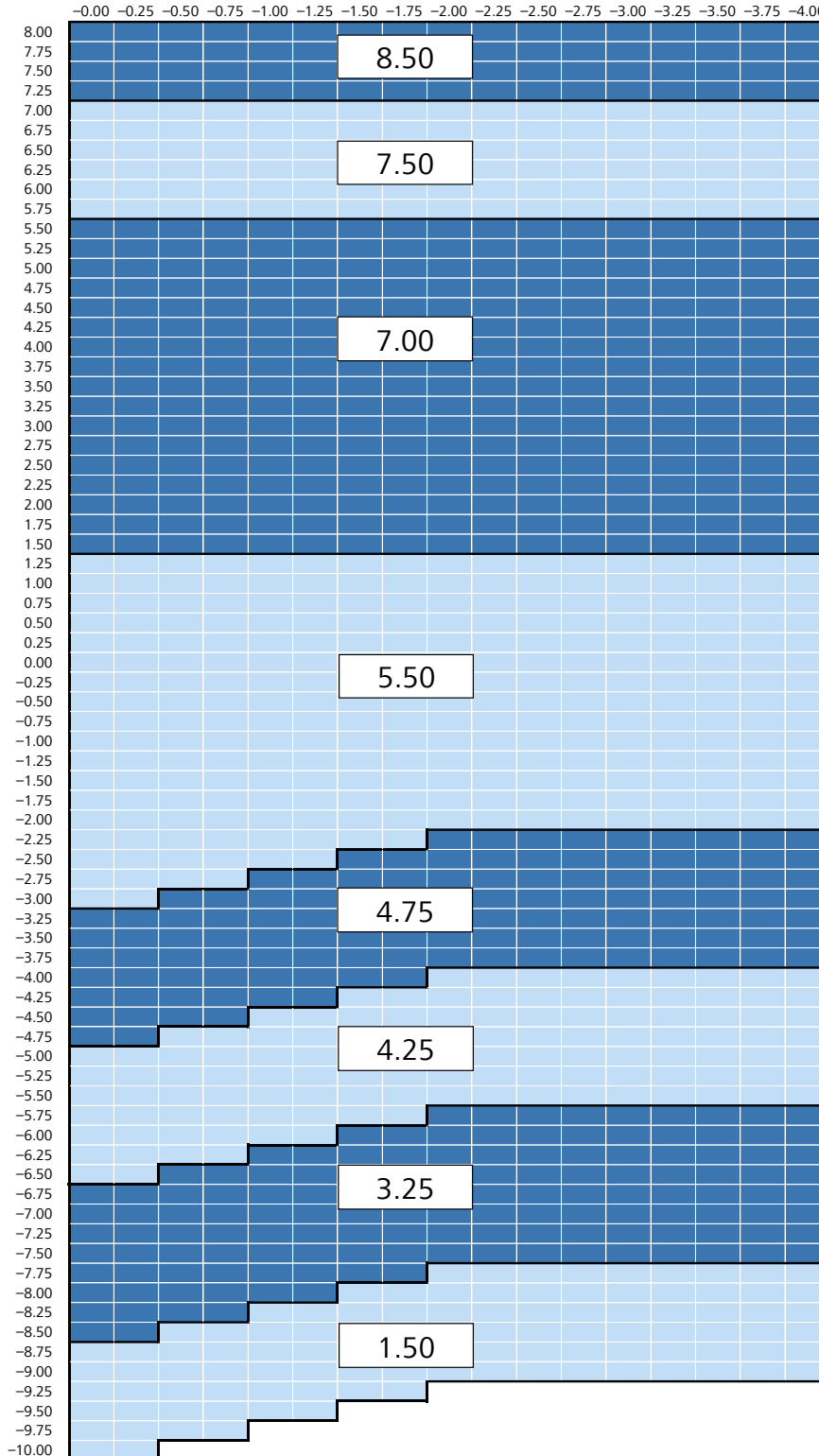
PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished Single Vision SPH 1.59 Transitions XTRActive Polarized

6. Base Curve Selection Chart



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PRODUCT FACT SHEET

Product Name

synchrony Semi-Finished Single Vision Spherical 1.59 (SV+)

1. Customer Product Codes

Product:	LGC:	LGC Description:	CAT Code:
PG Coated	L2062	SYNC SF SV SPH 159 PG ---	232
Hard Coated	L2143	SYNC SF SV SPH 159 HC ---	424

OPCs:

Base Code	PG Coated LGC: L2062	Hard Coated LGC: L2143
0.50	0102223302	0102227600
1.00	0102223310	0102227618
2.00	0102223328	0102227626
3.00	0102223336	0102227634
4.00	0102223344	0102227642
5.00	0102223351	0102227659
6.00	0102223369	0102227667
7.00	0102223377	0102227675
8.00	0102223385	0102227683

2. Product Range: Refer also Base Curve Selection Chart section 6.

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

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PRODUCT FACT SHEET

Product Name	synchrony Semi-Finished Single Vision Spherical 1.59 (SV+)
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3. Material & Coating Specifications:

Type	Polycarbonate 1.59
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

4. Lens Geometry:

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

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

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
High Minus to -1.50	1.5	
-1.25 to +2.00	1.8 or *	1.6 *
+2.25 to +3.00		1.0
+3.25 to High Plus		0.7

* Thicknesses are based on whichever is the limiting

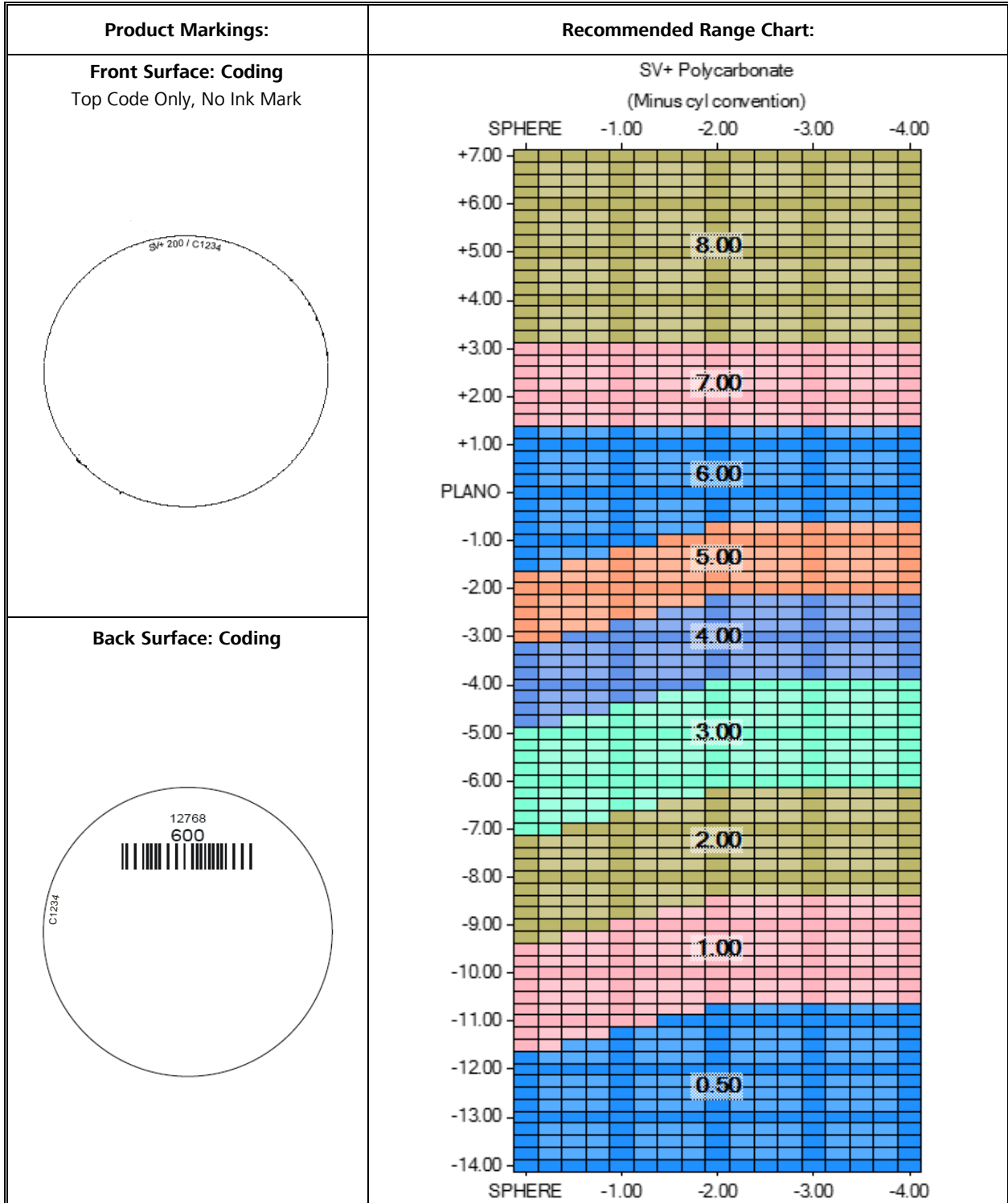
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PRODUCT FACT SHEET

Product Name

synchrony Semi-Finished Single Vision Spherical 1.59 (SV+)

6. Product Markings & Base Curve Selection Chart:



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PRODUCT FACT SHEET

Product Name	synchrony Semi-Finished Single Vision Spherical 1.59
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1. Customer Product Codes

Product:	LGC:	LGC Description:	CAT Code:
Hard Coated	L2201	SYNC SF SV SPH 159 PG ---	791

OPCs:

Base Code	Hard Coated LGC: L2201
0.50	5115300914
2.25	5115300930
4.50	5115300922
6.25	5115300948
8.00	5115300955

2. Product Range: Refer also Base Curve Selection Chart section 6.

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)
74	0.50	-12.00 74 0.50
74	2.25	-10.50 74 2.25
74	4.50	-5,75 74 4.50
74	6.25	-1.75 74 6.25
74	8.00	+2.25 74 8.00

3. Material & Coating Specifications:

Type	Polycarbonate 1.59
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

4. Lens Geometry:

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

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Product Name

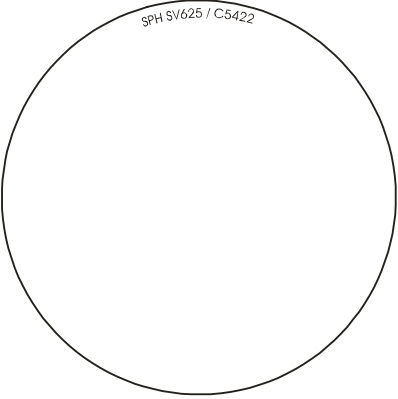
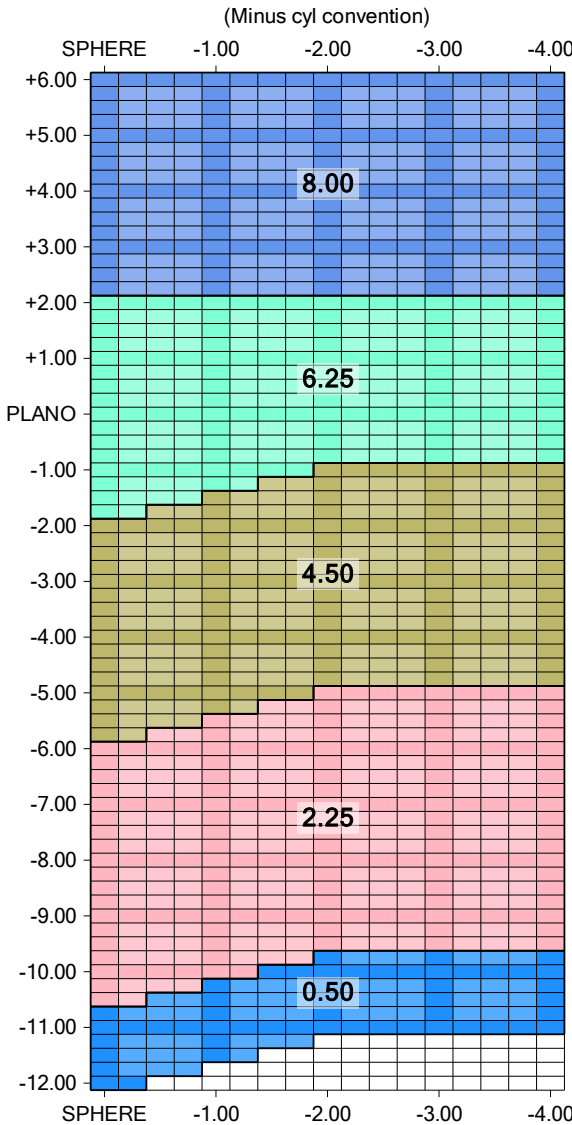

synchrony Semi-Finished Single Vision Spherical 1.59

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

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
High Minus to -1.50	1.5	
-1.25 to +2.00	1.8 or *	1.6 *
+2.25 to +3.00		1.0
+3.25 to High Plus		0.7

* Thicknesses are based on whichever is the limiting

6. Product Markings & Base Curve Selection Chart:

Product Markings:	Recommended Range Chart:
<p style="text-align: center;">Front Surface: Coding Top Code Only, No Ink Mark</p> <div style="text-align: center; margin: 10px 0;">  </div>	<div style="text-align: center; margin-bottom: 5px;">(Minus cyl convention)</div> 
<p style="text-align: center;">Back Surface: Coding</p> <div style="text-align: center; margin: 10px 0;">  </div>	

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PRODUCT FACT SHEET



Product Name	synchrony Semi-Finished SV SPH 1.59 BLP HC
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1. Product Name: synchrony Semi-Finished SV SPH 1.59 BLP HC

2. Customer Product Codes:

CAT Code	LGC	LGC Description
K34	L7643	SYNC SF SV SPH 159 BLP HC V--
K35	L7644	SYNC SF SV SPH 159 BLP PG V--

OPCs:

Base Curve	Hard Coated (HC) LGC: 7643	Hard Coated (PG) LGC: L7644
0.50	5404239724	5404239849
1.00	5404239732	5404239856
2.00	5404239740	5404239864
3.00	5404239757	5404239872
4.00	5404239765	5404239880
5.00	5404239773	5404239898
6.00	5404239781	5404239906
7.00	5404239799	5404239914
7.10	5404239815	5404239930
7.80	5404239823	5404239948
8.00	5404239831	5404239955

3. Material Specifications:

Type	Polycarbonate Resin Polymer Blue Light Protection
Refractive Index	$n_d = 1.586$ $n_e = 1.590$
Abbe Number	$v_d = 30$ $v_e = 30$
Density	1.20 g/cm ³
UV Protection (ISO)	UVA: 100 %, UVB: 100 % 2.0 mm Centre Thickness
Coating Type	HC, PG

4. Design: Spherical

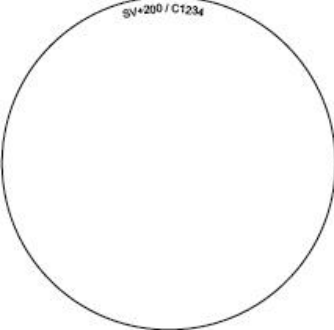

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PRODUCT FACT SHEET



Product Name	synchrony Semi-Finished SV SPH 1.59 BLP HC
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5. Product Markings:

Front (Casting) Surface: Top Code As viewing the front side of blanks	Back (Non-Casting) Surface laser engraved code As viewing the front side of blanks
<p>None Required, but a Top Code may be present as per sample below</p> 	

6. Lens Geometry:

Diameter (mm)	Nominal Base (D)	TFC Radius (mm)	True Front Curve (D)	Back Mould Code	Nominal Lens Blank Back Curve (D)	Centre Thickness (±1.0mm)	Nominal Edge Thickness (mm)
75	0.50	803.03	0.66	+5.75	-5.75	10.4	17.5
75	1.00	410.85	1.29	+5.75	-5.75	9.4	15.7
75	2.00	253.59	2.09	+5.75	-5.75	8.9	14.1
75	3.00	172.64	3.07	+5.75	-5.75	8.4	12.3
75	4.00	132.50	4.00	+5.75	-5.75	8.4	11.0
75	5.00	106.00	5.00	+5.75	-5.75	8.4	9.5
75	6.00	94.30	5.62	+5.75	-5.75	8.4	8.6
75	7.00	82.04	6.46	+5.75	-5.75	8.4	7.3
75	7.10	74.33	7.13	+8.00	-8.00	9.0	10.5
75	7.80	67.77	7.82	+8.00	-8.00	9.0	9.3
75	8.00	62.57	8.47	+8.00	-8.00	9.4	8.6

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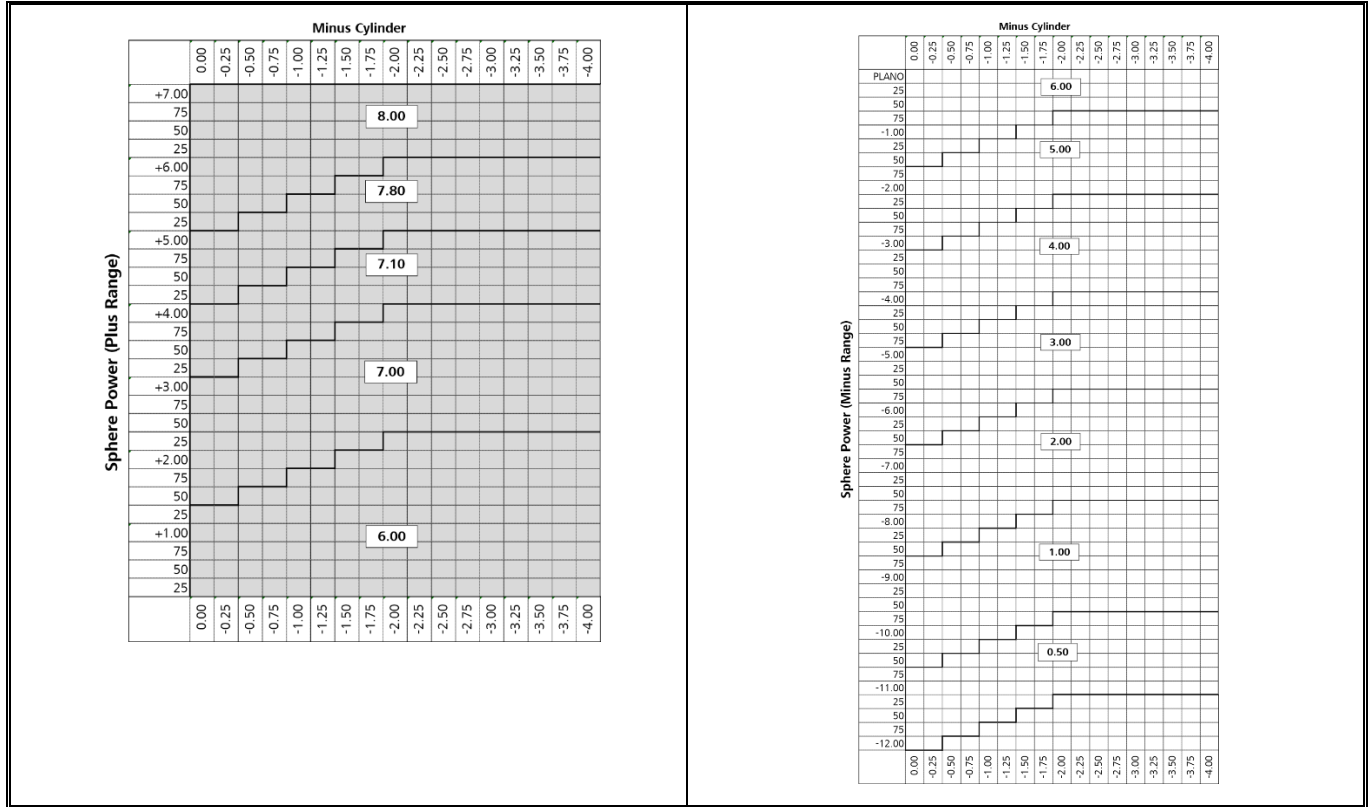
PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished SV SPH 1.59 BLP HC

7. Recommended Base Chart Selection Charts:



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PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished Single Vision SPH 1.53 Trivex

1. Customer Product Codes:

Product	LGC	CAT Code	LGC Description
UNC	L7382	J08	SYNC SF SV SPH 153 UNC U--
HC	L7383	J09	SYNC SF SV SPH 153 HC U--

OPC's

Nominal Diameter (mm)	Base Code	UNC LGC- L7382	HC LGC- L7383
76	0.50	5402928054	5402928245
76	1.25	5402928062	5402928252
76	2.25	5402928070	5402928260
76	3.25	5402928088	5402928278
76	4.25	5402928096	5402928286
76	5.25	5402928203	5402928294
76	6.25	5402928211	5402928302
76	7.25	5402928229	5402928310
76	8.25	5402928237	5402928328

2. Product Range: Refer to the appropriate Finished Freeform Product Fact Sheet.

3. Material & Coating Specifications:

Type	Trivex
Refractive Index	$n_d = 1.527$ $n_e = 1.530$
Abbe Number	$v_d = 43$ $v_e = 45$
Density	1.105 to 1.11 g/cm ³
UV Protection (ISO)	UVA : 100 %, UVB : 100 % 2.0 mm Centre Thickness
Coating Type	Hard Coat and Uncoated

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PRODUCT FACT SHEET



Product Name

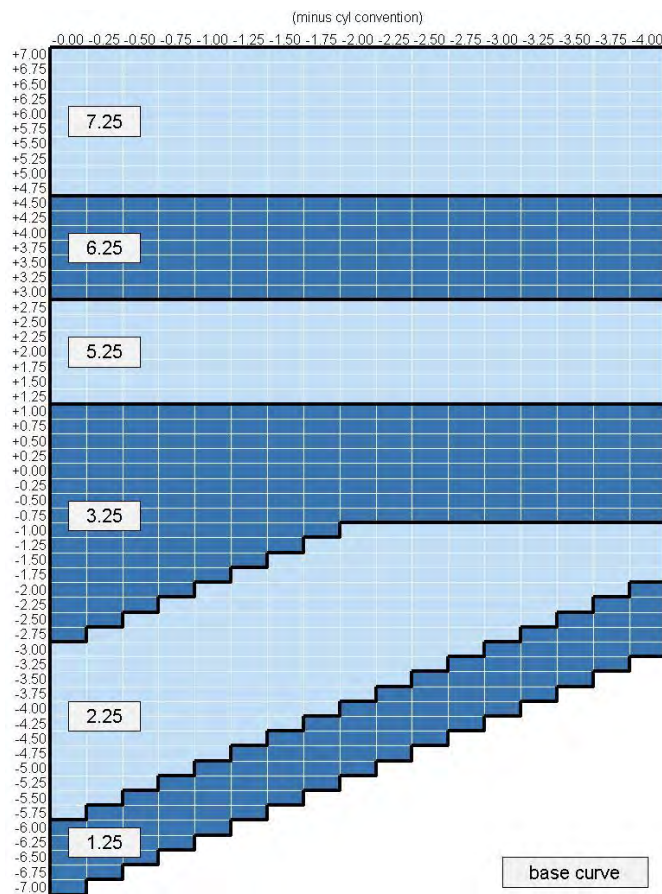
synchrony Semi-Finished Single Vision SPH 1.53 Trivex

4. Lens Geometry:

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

5. Product Markings: None

6. Recommended Base Curve Chart:



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PRODUCT FACT SHEET



Product Name	synchrony Semi-Finished SV SPH 1.53 BLP HC
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1. **Product Name:** synchrony Semi-Finished SV SPH 1.53 BLP HC

2. **Customer Product Codes:**

Product	CAT Code	LGC	LGC Description
HC	K33	L7642	SYNC SF SV SPH 153 BLP HC V--

OPCs:

Nominal Diameter (mm)	Base Code	HC LGC: L7642
76	0.50	5404239997
76	1.25	5404240003
76	2.25	5404240011
76	3.25	5404240029
76	4.25	5404240037
76	5.25	5404240045
76	6.25	5404240052
76	7.25	5404240060
76	8.25	5404240078

3. **Material Specifications:**

Type	Trivex Resin Polymer Blue Light Protection
Refractive Index	$n_d = 1.527$ $n_e = 1.530$
Abbe Number	$v_d = 43$ $v_e = 45$
Density	1.11 g/cm ³
UV Protection (ISO)	UVA: 100 %, UVB: 100 % 2.0 mm Centre Thickness
Coating Type	HC

4. **Design:** Spherical

5. **Product Markings:** None

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PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished SV SPH 1.53 BLP HC

6. Lens Geometry:

Product Base Code	Nominal Diameter (mm)	Front TFC Surface (D)	Front Surface (Radius mm)	Nominal Back (Non-casting) Surface (D)	Centre Thickness ($\pm 1.0\text{mm}$)	Edge Thickness ($\pm 1.0\text{mm}$)
0.50	76	0.49	1081.63	4.25	12.5	17.1
1.25	76	1.25	424.00	4.25	10.8	14.4
2.25	76	2.26	234.51	4.25	12.3	14.6
3.25	76	3.26	162.58	4.25	13.4	14.3
4.25	76	4.23	125.30	4.25	14.8	14.5
5.25	76	5.33	99.44	6.25	6.8	8.2
6.25	76	6.24	84.94	6.25	8.1	8.1
7.25	76	7.33	72.31	6.25	9.8	8.0
8.25	76	8.27	64.09	6.25	11.3	7.8

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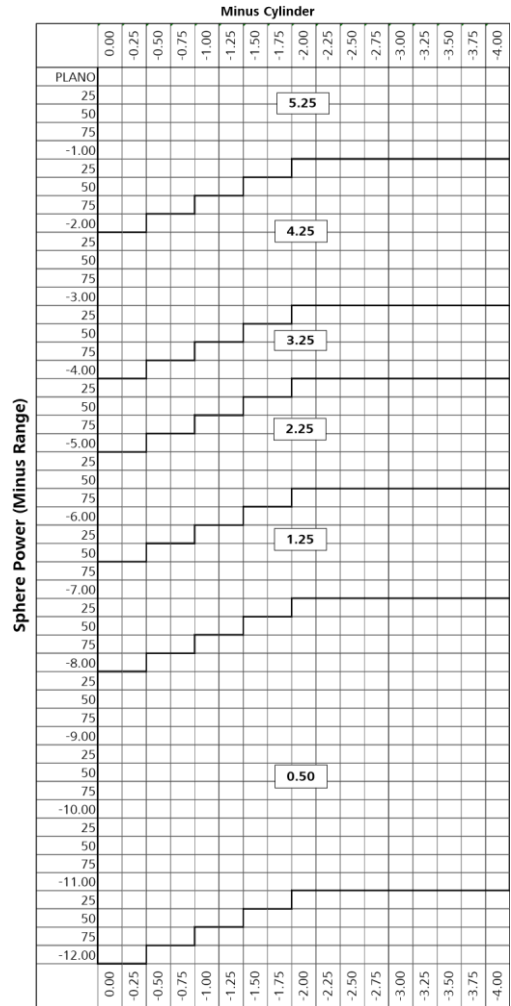
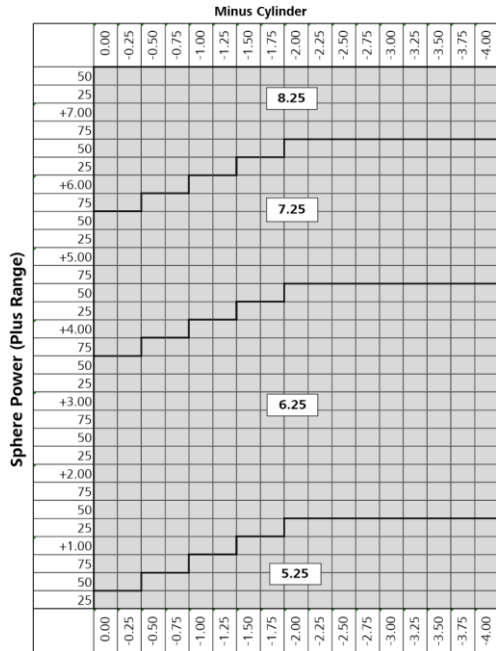
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Product Name

synchrony Semi-Finished SV SPH 1.53 BLP HC

7. Recommended Base Curve Selection Chart:



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PRODUCT FACT SHEET



Product Name	ZEISS Semi-Finished Freeform Puck 1.53 TRIVEX PhotoFusion X Blue, Brown, Pioneer, Pro Brown, Pro Grey, Grey Black, Extra Grey B
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1. Customer Product Codes:

Product	LGC	LGC Description	CAT Code
Blue HA	L7539	ZEISS PUCK 153 PFX BLU HA V--	K46
Brown HA	L7536	ZEISS PUCK 153 PFX BRN HA V--	K43
Pioneer HA	L7538	ZEISS PUCK 153 PFX PIO HA V--	K45
Grey Black HA	L7777	ZEISS PUCK 153 PFX GRYB HA V--	L31
Pro Grey HA	L7709	ZEISS PUCK 153 PFX PGRY HA V--	K69
Pro Brown HA	L7710	ZEISS PUCK 153 PFX PBRN HA V--	K70
Extra Grey B HA	L7810	ZEISS PUCK 153 PFX EGB HA V--	M29

OPC's:

Hard Coated – HA								
Base Code	CT	BLU HA L7539	BRN HA L7536	PIO HA L7538	GRYB HA L7777	PGRY HA L7709	PBRN HA L7710	EGB HA L7810
0.50	12.5	5403395485	5403395212	5403395394	5404749102	5404383605	5404383696	5402395874
1.25	10.8	5403395493	5403395220	5403395402	5404749110	5404383613	5404383704	5402395882
2.25	12.3	5403395501	5403395238	5403395410	5404749128	5404383621	5404383712	5402395890
3.25	13.4	5403395519	5403395246	5403395428	5404749136	5404383639	5404383720	5402395908
4.25	14.8	5403395527	5403395253	5403395436	5404749144	5404383647	5404383738	5402395916
5.25	6.8	5403395535	5403395261	5403395444	5404749151	5404383654	5404383746	5402395924
6.25	8.1	5403395543	5403395279	5403395451	5404749169	5404383662	5404383753	5402395932
7.25	9.8	5403395550	5403395287	5403395469	5404749177	5404383670	5404383761	5402395940
8.25	11.3	5403395568	5403395295	5403395477	5404749185	5404383688	5404383779	5402395957

2. **Product Range:** Refer to the appropriate Finished Freeform Product Fact Sheet.

3. Material & Coating Specifications:

Type	ZEISS BlueGuard Trivex Resin Polymer with PhotoFusion X Coating Treatment
Refractive Index	$n_d = 1.527$ $n_e = 1.530$
Abbe Number	$v_d = 43$ $v_e = 45$
Density	1.11 g/cm ³
UV Protection (ISO)	UVA: 100 %, UVB: 100 % 2.0 mm Centre Thickness
Coating Type	Hard Coated

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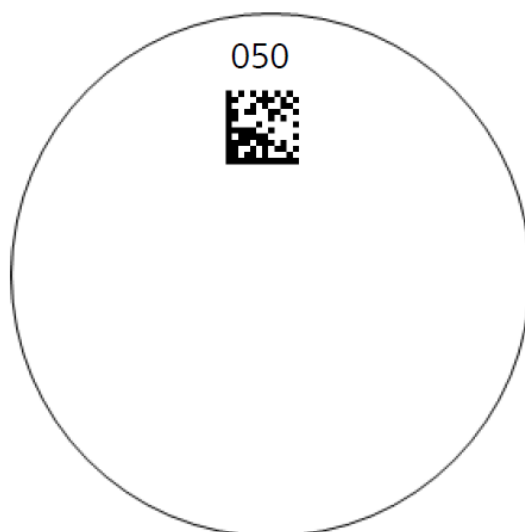
Product Name	ZEISS Semi-Finished Freeform Puck 1.53 TRIVEX PhotoFusion X Blue, Brown, Pioneer, Pro Brown, Pro Grey, Grey Black, Extra Grey B
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4. Lens Geometry: (Dioptre Curves measured in 1.530 R.I.)

Nominal Base Code	Nominal Diameter* (mm)	Front TFC Surface (D)	Front Surface (Radius mm)	Nominal Back (Non-casting) Surface (D)	Centre Thickness (±1.0mm)	Edge Thickness
0.50	74	0.49	1081.63	-4.25	12.5	17.6
1.25	74	1.25	424.00	-4.25	10.8	14.9
2.25	74	2.26	234.51	-4.25	12.3	15.1
3.25	74	3.26	162.58	-4.25	13.4	14.8
4.25	74	4.23	125.30	-4.25	14.8	14.9
5.25	74	5.33	99.44	-6.25	6.8	8.2
6.25	74	6.24	84.94	-6.25	8.1	8.1
7.25	74	7.33	72.31	-6.25	9.8	8.1
8.25	74	8.27	64.09	-6.25	11.3	8.0

*Note: An artefact of the photocasting process is a 2mm Coating Rollback on the Front Surface around the circumference of the lens

5. Product Markings: Back Surface: Base code, Data matrix Code sample below as viewed from front side of blank



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PRODUCT FACT SHEET

Product Name	synchrony Semi-Finished Single Vision Spherical 1.53 Trivex Polarized
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1. Customer Product Codes

Product:	LGC:	LGC Description:	CAT Code:
Polarized Grey HC	L6791	SYNC SF SV SPH 153 PL GRY HC F--	Y76
Polarized Brown HC	L6792	SYNC SF SV SPH 153 PL BRN HC F--	Y77

OPCs:

Base Code	Grey-3 HC LGC: L6791	Brown HC LGC: L6792
2.25	5117996206	5117996248
4.25	5117996214	5117996255
6.25	5117996222	5117996263
8.25	5117996230	5117996271

2. Product Range: Refer also Base Curve Selection Chart section 7.

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)
74	2.25	-7.00 to -4.00
74	4.25	-3.75 to +2.25
74	6.25	+2.50 to +5.25
74	8.25	+5.50 to +7.00

3. Material & Coating Specifications:

Type	Trivex 1.53
Refractive Index	$n_d = 1.527$ $n_e = 1.530$
Abbe Number	$V_d = 43$ $V_e = 45$
Density	1.11 g/cm ³
UV Protection (ISO)	UVA: 100 %, UVB: 100 %
Coating Type	Hard Coated

4. Lens Geometry: Foil position is 0.7 to 1.0 mm from Front Surface

Product Base Code	Nominal Diameter (mm)	Front TFC Surface (D)	Front Surface (Radius mm)	Nominal Back Surface (D)	Centre Thickness (±1.0mm)	Nom. Edge Thickness
2.25	74	2.26	234.51	6.25	5.6	10.9
4.25	74	4.24	125.00	6.25	8.4	11.2
6.25	74	6.25	84.80	6.25	8.6	8.5
8.25	74	8.26	64.17	6.25	11.9	8.7

5. Product Markings: None

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PRODUCT FACT SHEET

Product Name

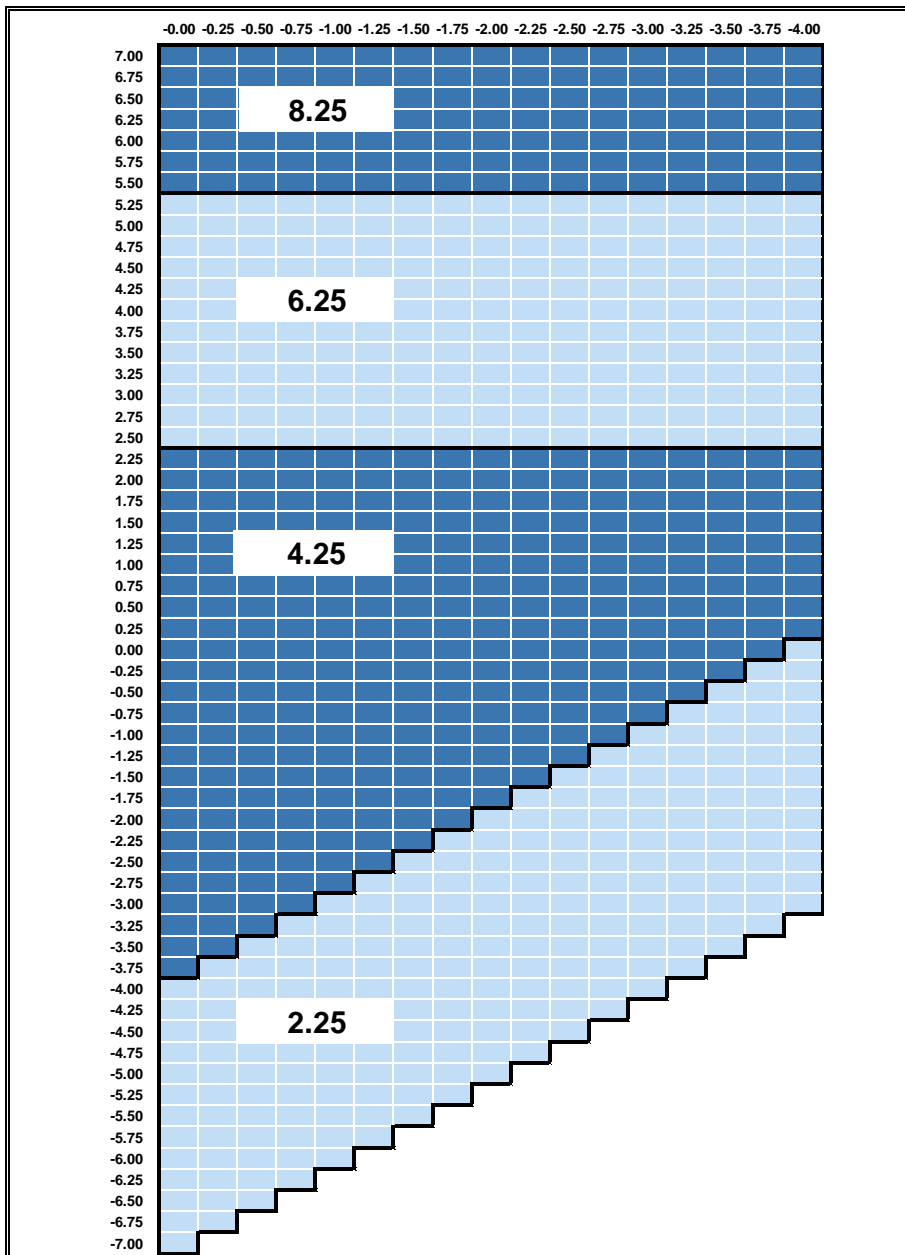
synchrony Semi-Finished Single Vision Spherical 1.53 Trivex Polarized

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

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
High Minus to -2.00	2.0	
-1.75 to +2.00	2.0 or *	1.0 *
+2.25 to +4.00		1.0
+4.25 to High Plus		0.5

* Thicknesses are based on whichever is the limiting

7. Base Curve Selection Chart



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PRODUCT FACT SHEET



Product Name synchrony Semi-Finished SV SPH 1.50 BLP HC

1. Product Name: synchrony Semi-Finished SV SPH 1.50 BLP HC

2. Customer Product Codes:

CAT Code	LGC	LGC Description
K32	L7641	SYNC SF SV SPH 15 BLP HC V--

OPCs:

Base Code	Hard Coated LGC: L7641
0.50	5404239617
2.25	5404239625
3.49	5404239633
3.50	5404239641
4.25	5404239658
5.25	5404239666
6.25	5404239674
6.50	5404239682
6.51	5404239690
8.25	5404239708
10.00	5404239716

3. Material Specifications:

Type	1.50 allylic Resin Polymer Blue Light Protection
Refractive Index	$n_d = 1.500$ $n_e = 1.502$
Abbe Number	$v_d = 58$ $v_e = 58$
Density	1.32 g/cm ³
UV Protection (ISO)	UVA: 100 %, UVB: 100 % 2.0 mm Centre Thickness
Coating Type	HC

4. Design: Spherical

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PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished SV SPH 1.50 BLP HC

5. Lens Geometry:

Diameter (mm)	Nominal Base (D)	True Front Curve (D)	TFC Radius (mm)	Nominal Back Curve (D)	Centre Thickness (±1.0mm)	Nominal Edge Thickness (mm)
76	0.50	0.42	1261.90	-4.00	10.6	15.8
76	2.25	2.10	252.38	-4.00	10.6	13.6
76	3.49	3.69	143.63	-4.00	9.6	11.3
76	3.50	3.69	143.63	-4.00	15.5	16.0
76	4.25	4.29	123.54	-4.00	10.6	10.4
76	5.25	5.25	100.95	-6.00	8.7	10.2
76	6.25	6.21	85.35	-6.00	8.8	8.5
76	6.50	6.97	76.04	-6.00	10.1	8.5
76	6.51	6.94	76.37	-6.00	19.7	18.2
76	8.25	8.27	64.09	-6.00	12.4	8.5
76	10.00	9.99	53.05	-6.00	16.0	8.5

6. Product Markings:

Back Surface Codes	Back Surface Codes
<p>28034 650 UP50 BL</p>	<p>26350 650 UP50 LP</p>

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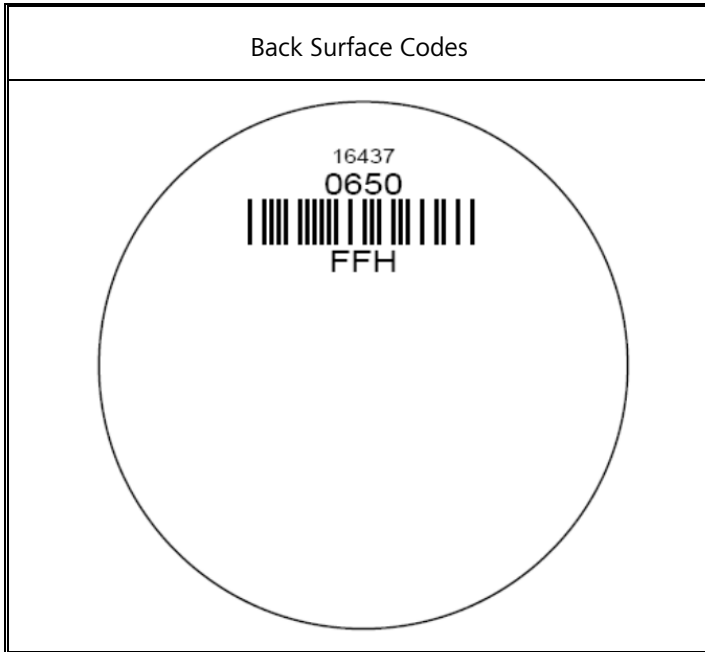
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Product Name

synchrony Semi-Finished SV SPH 1.50 BLP HC

6. Product Markings continued:



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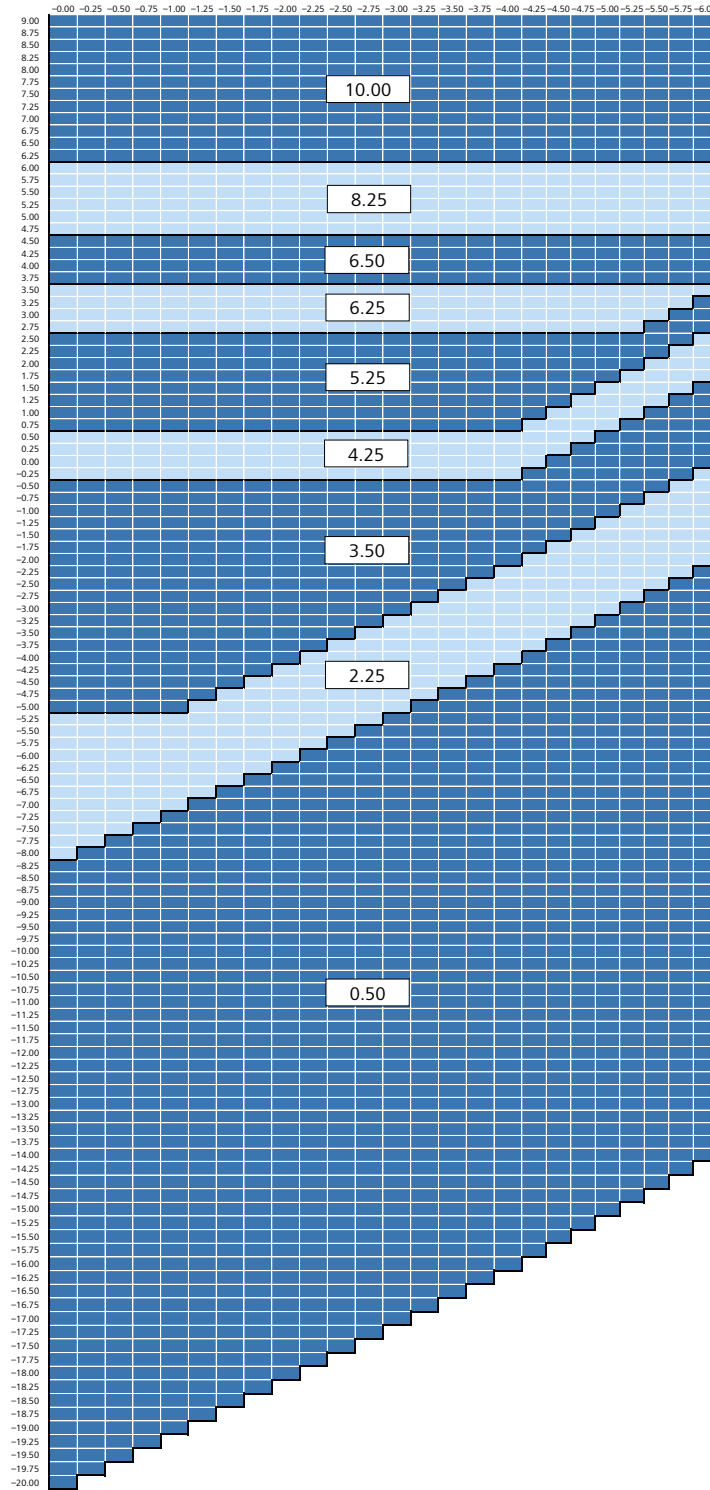
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Product Name

synchrony Semi-Finished SV SPH 1.50 BLP HC

7. Recommended Base Curve Chart:



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PRODUCT FACT SHEET

Product Name

synchrony Semi-Finished Single Vision Spherical 1.5

1. Customer Product Codes

Product:	LGC:	LGC Description:	CAT Code:
66mm HC	L2368	SYNC SF SV SPH 15 PG ---	989
66mm UNC	L2362	SYNC SF SV SPH 15 UNC ---	986
70mm HC	L2173	SYNC SF SV SPH 15 PG ---	991
70mm UNC	L2081	SYNC SF SV SPH 15 UNC ---	984
75mm HC	L2172	SYNC SF SV SPH 15 PG ---	990
75mm UNC	L2082	SYNC SF SV SPH 15 UNC ---	985

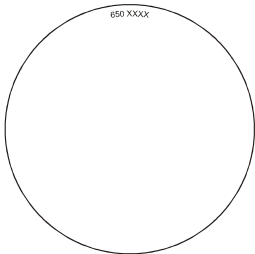
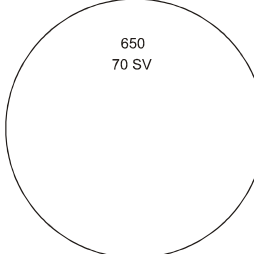
2. Product Range: Refer also Base Curve Selection Chart section 7.

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

3. Material & Coating Specifications:

Type	Organic 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	Hard Coated & Uncoated	

4. Product Markings: Example 70mm Product, As viewing the front side of blanks

Front (Casting) Surface: Top Code	Back (Non-Casting) Surface: Cast On Code
	

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PRODUCT FACT SHEET

Product Name

synchrony Semi-Finished Single Vision Spherical 1.5

5. Lens Geometry: 66mm Product

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

70mm Product

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

75mm Product

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

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Product Name

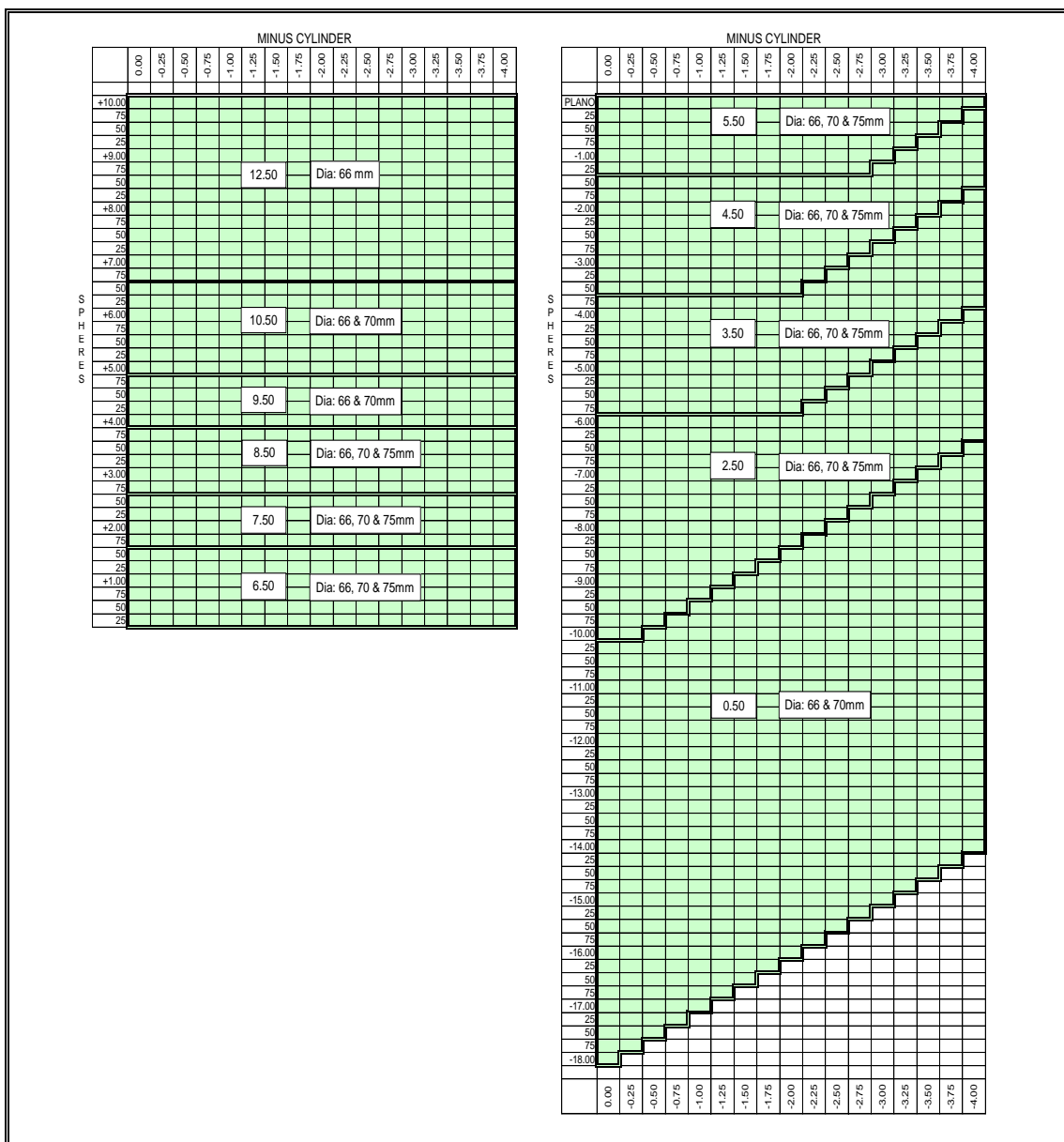
synchrony Semi-Finished Single Vision Spherical 1.5

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

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
High Minus to -2.00	2.0	
-1.75 to +2.00	2.0 or *	1.0 *
+2.25 to +4.00		1.0
+4.25 to High Plus		0.5

* Thicknesses are based on whichever is the limiting factor

7. Surfacing and Base Curve Selection:



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PRODUCT FACT SHEET

Product Name	synchrony Semi-Finished Single Vision Spherical 1.5
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1. Customer Product Codes

Product:	LGC:	LGC Description:	CAT Code:
Hard Coated (72mm)	L2134	SYNC SF SV SPH 15 HC ---	511
Uncoated (72mm)	L2058	SYNC SF SV SPH 15 UNC ---	226

OPCs:

Base Code	Hard Coated LGC: L2134	Uncoated LGC: L2058
0.50	5110202891	5110102893
2.50	5110202909	5110102901
4.00	5110202917	5110102919
5.00	5110208732	5110109294
6.00	5110202925	5110102927
8.00	5110202933	5110102935
10.00	5110202941	5110102943

2. Product Range: Refer also Base Curve Selection Chart section 7.

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

3. Material & Coating Specifications:

Type	Organic 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	Hard Coated & Uncoated

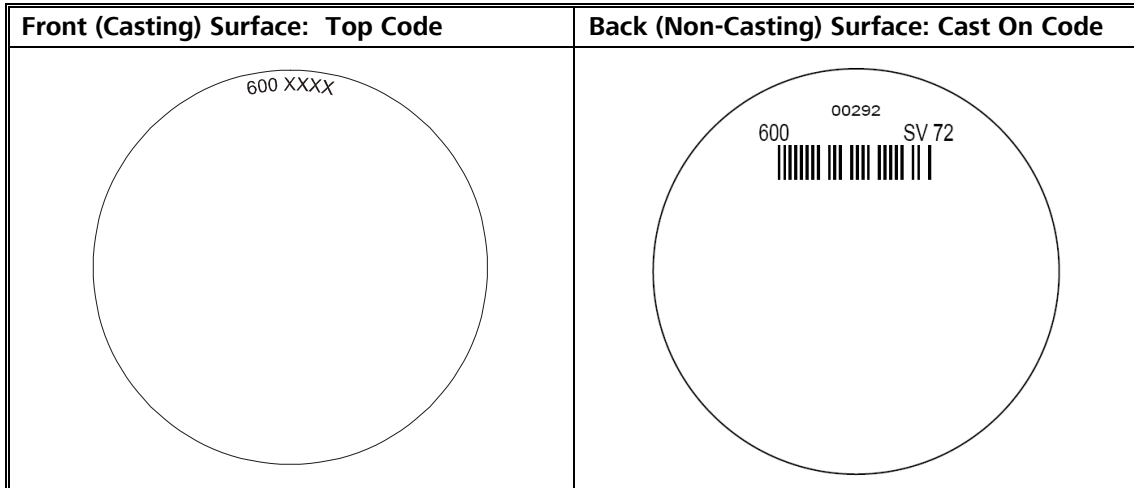
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PRODUCT FACT SHEET

Product Name

synchrony Semi-Finished Single Vision Spherical 1.5

4. Product Markings: As viewing the front side of blanks



5. Lens Geometry:

Nominal Base	True Front Curve (D) (1.530)	Radii (mm)	Nominal Back Curve (D)	Centre Thickness ($\pm 1.0\text{mm}$)	Nominal Edge Thickness (mm)
0.50	0.37	1432.43	-3.00	12.8	16.0
2.50	2.15	246.51	-6.00	11.0	16.0
4.00	3.68	144.02	-6.00	9.9	13.0
5.00	4.77	111.11	-6.00	11.3	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

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

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
High Minus to -2.00	2.0	
-1.75 to +2.00	2.0 or *	1.0 *
+2.25 to +4.00		1.0
+4.25 to High Plus		0.5

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

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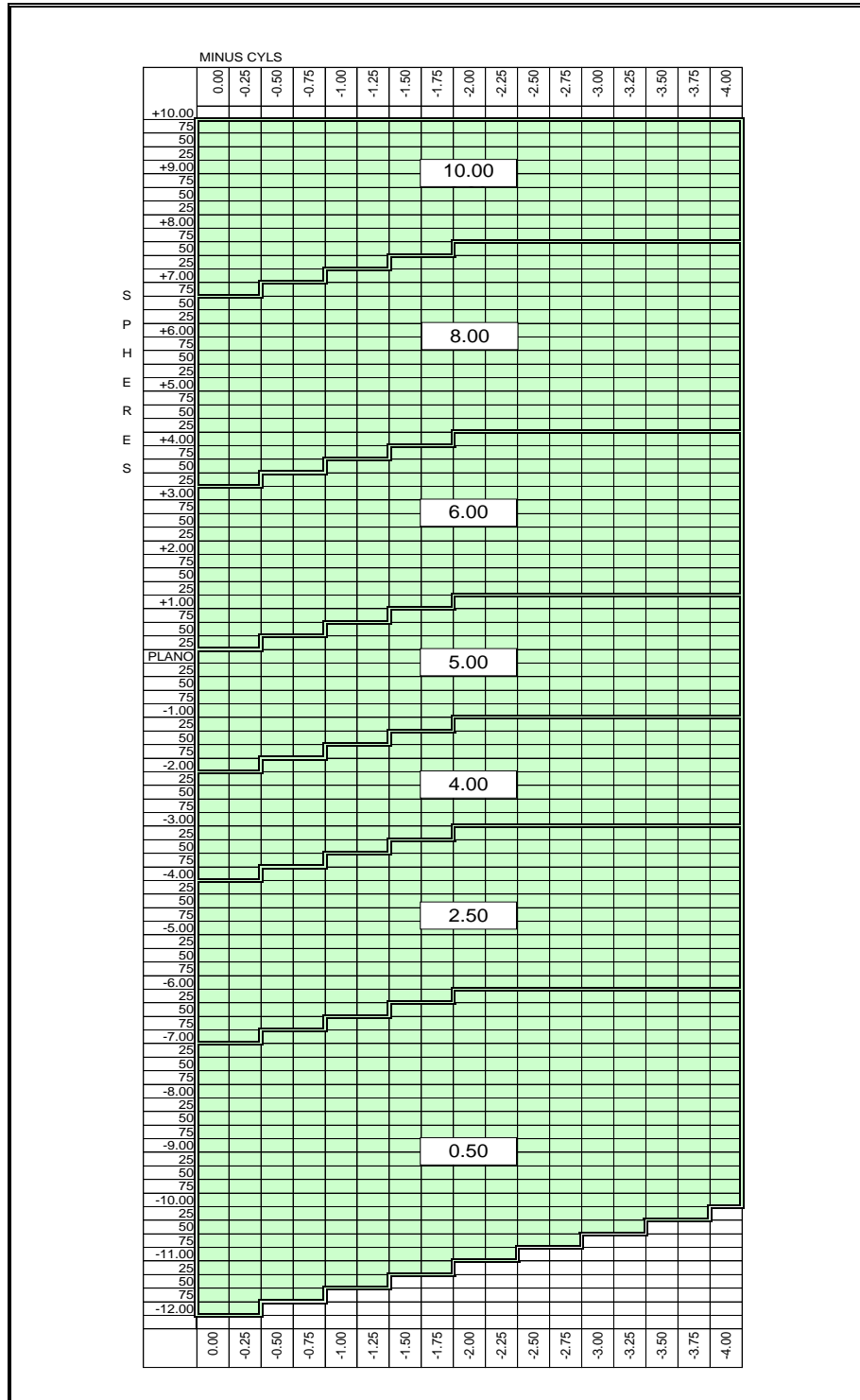
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Product Name

synchrony Semi-Finished Single Vision Spherical 1.5

7. Base Curve Selection Chart:



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PRODUCT FACT SHEET

Product Name	synchrony Semi-Finished Single Vision Spherical 1.5
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1. Customer Product Codes

Product:	LGC:	LGC Description:	CAT Code:
Hard Coated (76mm)	L2409	SYNC SF SV SPH 15 PG ---	753
Uncoated (76mm)	L2008	SYNC SF SV SPH 15 UNC ---	018

OPCs:

Base Code	Hard Coated LGC: L2409	Uncoated LGC: L2008
0.50	0101538031	0101138030
2.50	0101538049	0101138048
4.00	0101527182	0101127181
6.00	0101527190	0101127199
8.00	0101527208	0101127207
10.00	0101538056	0101138055

2. Product Range: Refer also Base Curve Selection Chart section 7.

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

3. Material & Coating Specifications:

Type	Organic 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	Hard Coated & Uncoated

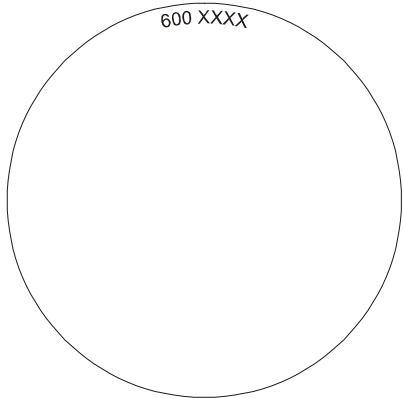

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Product Name

synchrony Semi-Finished Single Vision Spherical 1.5

4. Product Markings: As viewing the front side of blanks

Front (Casting) Surface: Top Code	Back (Non-Casting) Surface: Cast On Code
	

5. 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	0.00	∞	-3.00	12.9	17.0
2.50	2.15	246.51	-3.00	15.8	17.0
4.00	3.68	144.02	-6.00	11.5	15.0
6.00	5.92	89.53	-6.00	8.9	9.0
8.00	8.01	66.17	-6.00	12.4	9.0
10.00	10.00	53.00	-6.00	16.5	8.5

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

Power Range (D)	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
High Minus to -2.00	2.0	
-1.75 to +2.00	2.0 or *	1.0 *
+2.25 to +4.00		1.0
+4.25 to High Plus		0.5

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

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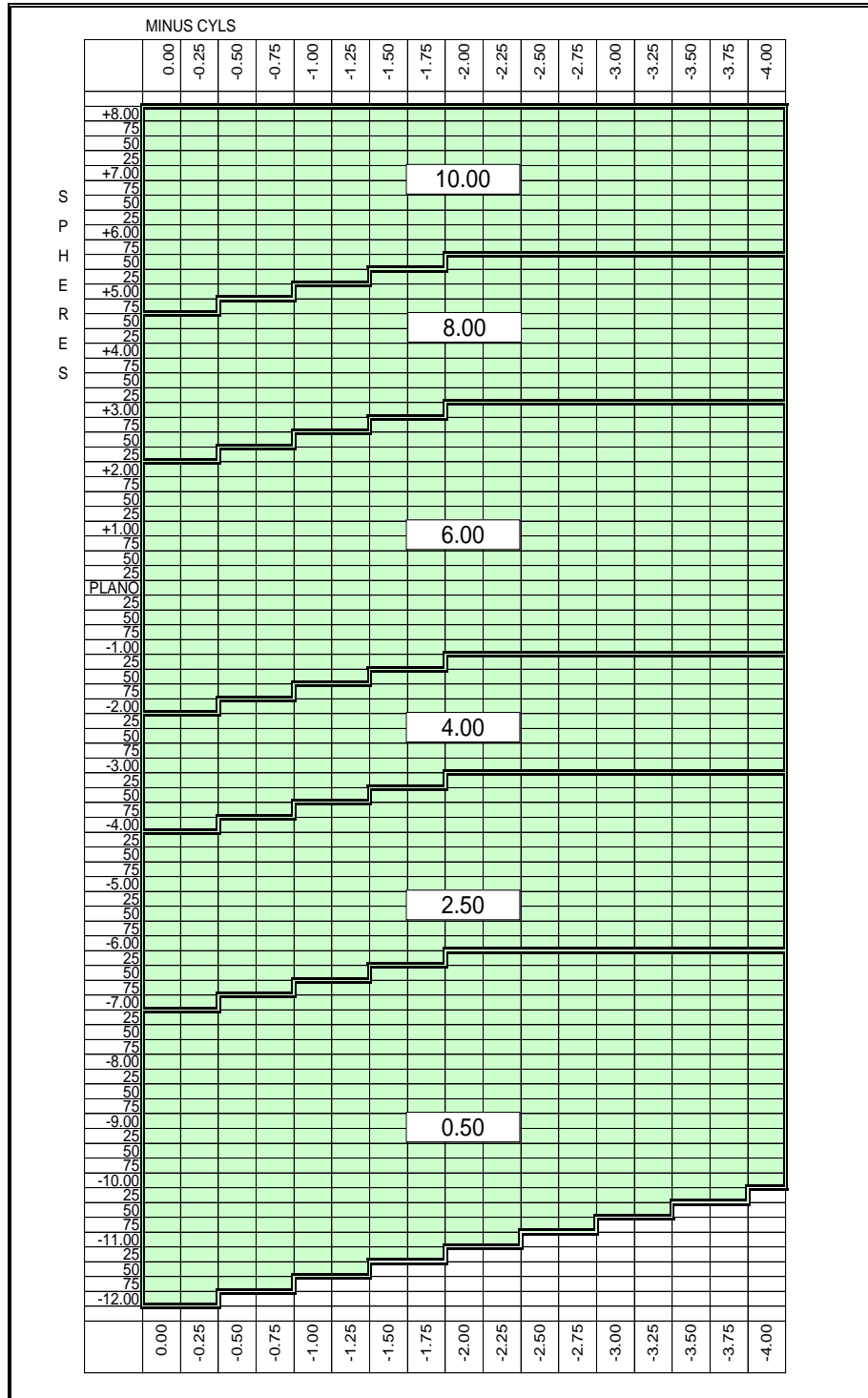
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Product Name

synchrony Semi-Finished Single Vision Spherical 1.5

7. Base Curve Selection Chart:



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Reviewed by: Geoff Riley: 31-Jan-18

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PRODUCT FACT SHEET



Product Name synchrony Semi-Finished Single Vision SPH 1.50 Transitions XTRActive Polarized

1. Customer Product Codes

Product	LGC	LGC Description	CAT Code
Grey HC	L7596	43 of 49 SYNC SF SV SPH 15 TXPL GRY HC I--	J81

OPCs:

Base Code	Grey HC LGC: L7596
0.50	5403403396
2.00	5403403404
3.50	5403403412
4.25	5403403420
5.25	5403403438
6.25	5403403446
7.25	5403403453
8.75	5403403461
10.50	5403403479

2. Product Range: Refer also Base Curve Selection Chart section 6.

Nominal Diameter (mm)	Nominal Base Curve (D)	Recommended Rx Range (D)
72	0.50	-12.00 to -7.25
76	2.00	-7.00 to -5.25
76	3.50	-5.00 to -3.25
76	4.25	-3.00 to -1.75
76	5.25	-1.50 to +0.25
76	6.25	+0.50 to +3.50
76	7.25	+3.75 to +5.25
72	8.75	+5.50 to +7.25
72	10.50	+7.50 to +10.00

3. Material & Coating Specifications:

Type	Organic 1.5 Transitions (CR39)
Refractive Index	$n_d = 1.449$ $n_e = 1.502$
Abbe Number	$v_d = 58$ $v_e = 58$
Density	1.31 g/cm ³
UV Protection (ISO)	UVA: 100 %, UVB: 100 %
Coating Type	Hard Coated

Document Number: 00963.FS1
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Reviewed by: Christo Teeuwssen: 8 September 2021
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PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished Single Vision SPH 1.50 Transitions XTRActive Polarized

4. Lens Geometry:

Diameter (mm)	Nominal Base (D)	True Front Curve in 1.530 (D)	Radius (mm)	Nominal Back Curve (D)	Centre Thickness (mm) (±0.8)	Nominal Edge Thickness (mm)
72	0.50	0.42	1261.90	-4.22	10.5	15.4
76	2.00	1.96	270.10	-2.03	15.9	16.0
76	3.50	3.48	152.45	-2.03	18.0	15.9
76	4.25	4.25	124.70	-4.22	14.0	14.0
76	5.25	5.19	102.03	-4.22	11.1	9.6
76	6.25	6.19	85.68	-6.33	12.8	12.9
76	7.25	7.22	73.45	-6.33	12.8	11.2
72	8.75	8.73	60.69	-6.33	12.0	8.6
72	10.50	10.31	51.41	-6.33	15.3	9.1

5. Product Markings:

Front Surface Ink Markings	Front Surface Semi-visible Markings	Back surface markings
<ul style="list-style-type: none"> Axis alignment ink marking indicating horizontal polarised axis orientation (Yellow) 	<ul style="list-style-type: none"> Cast on semi visible Code identifying material, base curve and unique ID. Due to the thickness of the coating treatment this code may become obscure Transitions applied semi-visible "T" symbols positioned 20mm from centre and "> ,<" markings at the edge of the blank indicating horizontal polarised axis orientation 	<ul style="list-style-type: none"> Semi-visible Transitions applied 2d matrix code and text identifying base curve.

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Reviewed by: Christo Teeuwssen: 8 September 2021

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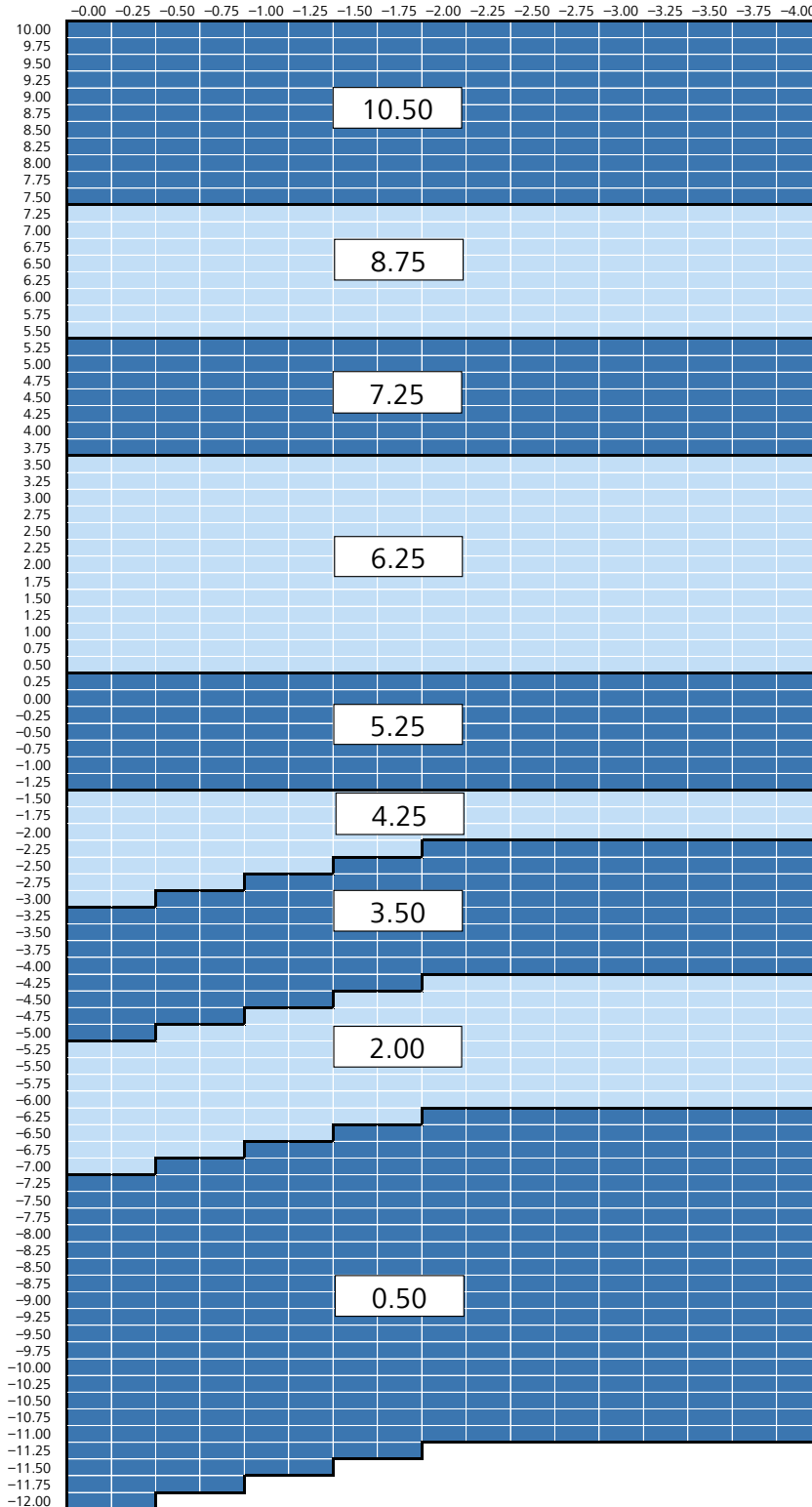
PRODUCT FACT SHEET



Product Name

synchrony Semi-Finished Single Vision SPH 1.50 Transitions XTRActive Polarized

6. Base Curve Selection Chart



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PRODUCT FACT SHEET

Product Name

synchrony Semi-Finished Single Vision Spherical Mineral 1.5
White & PhotoGray Extra (PGX)

1. Customer Product Codes

Product:	LGC:	LGC Description:	CAT Code:
White	L2026	SYNC SF SV SPH M15 UNC ---	059
PGX	L2025	SYNC SF SV SPH M15 PH GRY UNC G--	058

OPCs:

Base Code	White LGC- L2026	PGX LGC- L2025
0.50	0102037645	0102037587
2.00	0102037652	0102037595
4.25	0102037660	0102037603
6.25	0102037678	0102037611
8.25	0102037686	0102037629
10.25	0102037694	0102037637

2. Product Range: Refer also Base Curve Selection Chart

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

3. Material Specifications:

Type	Mineral White 1.5	PhotoGray Extra
Refractive Index	$\eta_d = 1.523$ (Helium 'd' line 587.56nm) $\eta_e = 1.525$ (Mercury 'e' line 546.07nm)	$\eta_d = 1.523$ (Helium 'd' line 587.56nm) $\eta_e = 1.525$ (Mercury 'e' line 546.07nm)
Abbe Number	$v_d = 58.8$ $v_e = 58.5$	$v_d = 58.8$ $v_e = 58.5$
Density	2.61 g·cm ⁻³	2.41 g·cm ⁻³
Yellowness Index	$Y_i = 0.9$ (10 mm Centre Thickness)	$Y_i = 0.9$ (10 mm Centre Thickness)
UV Transmittance	35.0% SUVA / <0.05% SUVB (Uncoated : 2.0 mm Centre Thickness)	5.0% SUVA / <0.05% SUVB (Uncoated : 2.0 mm Centre Thickness)
Transmittance	$\tau_{VD65} = 91.5 \%$ (2.00 mm plano)	$\tau_{VD65} = 91.0 \%$ (faded, 2mm plano) $\tau_{VD65} = 29.0 \%$ (darkened, 2mm plano)

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PRODUCT FACT SHEET

Product Name

synchrony Semi-Finished Single Vision Spherical Mineral 1.5
White & PhotoGray Extra (PGX)

4. Lens Geometry:

Nominal Base	Radii (mm)	True Front Curve (D) (1.530)	Nominal Diameter	Nominal Back Curve (D)	Centre Thickness (± 1mm)	Nom. Edge Thickness (± 1mm)
0.50	1060.00	0.50	70	-8.00	4.9	14.4
2.00	263.68	2.01	70	-8.00	8.2	13.5
4.25	127.10	4.17	70	-8.00	5.8	9.1
6.25	85.48	6.20	70	-6.25	6.7	6.2
8.25	65.19	8.13	70	-6.25	8.4	3.6
10.25	52.50	10.09	70	-6.25	12.2	5.3

5. Product Markings: None

6. Surfacing:

Recommended centre & edge thickness for all regions excluding USA:

Power Range	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
High Minus to -2.00	1.5	
-1.75 to +2.00	1.5 or *	1.4 *
+2.25 to +3.00		0.8
+3.25 to High Plus		0.5

Recommended centre & edge thickness for USA:

Power Range	Minimum Centre Thickness (mm)	Minimum Edge Thickness (mm)
High Minus to -2.00	2.2	
-1.75 to +2.00	2.2 or *	1.7 *
+2.25 to +3.00		1.7
+3.25 to High Plus		1.4

* Thicknesses are based on whichever is the limiting factor

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.

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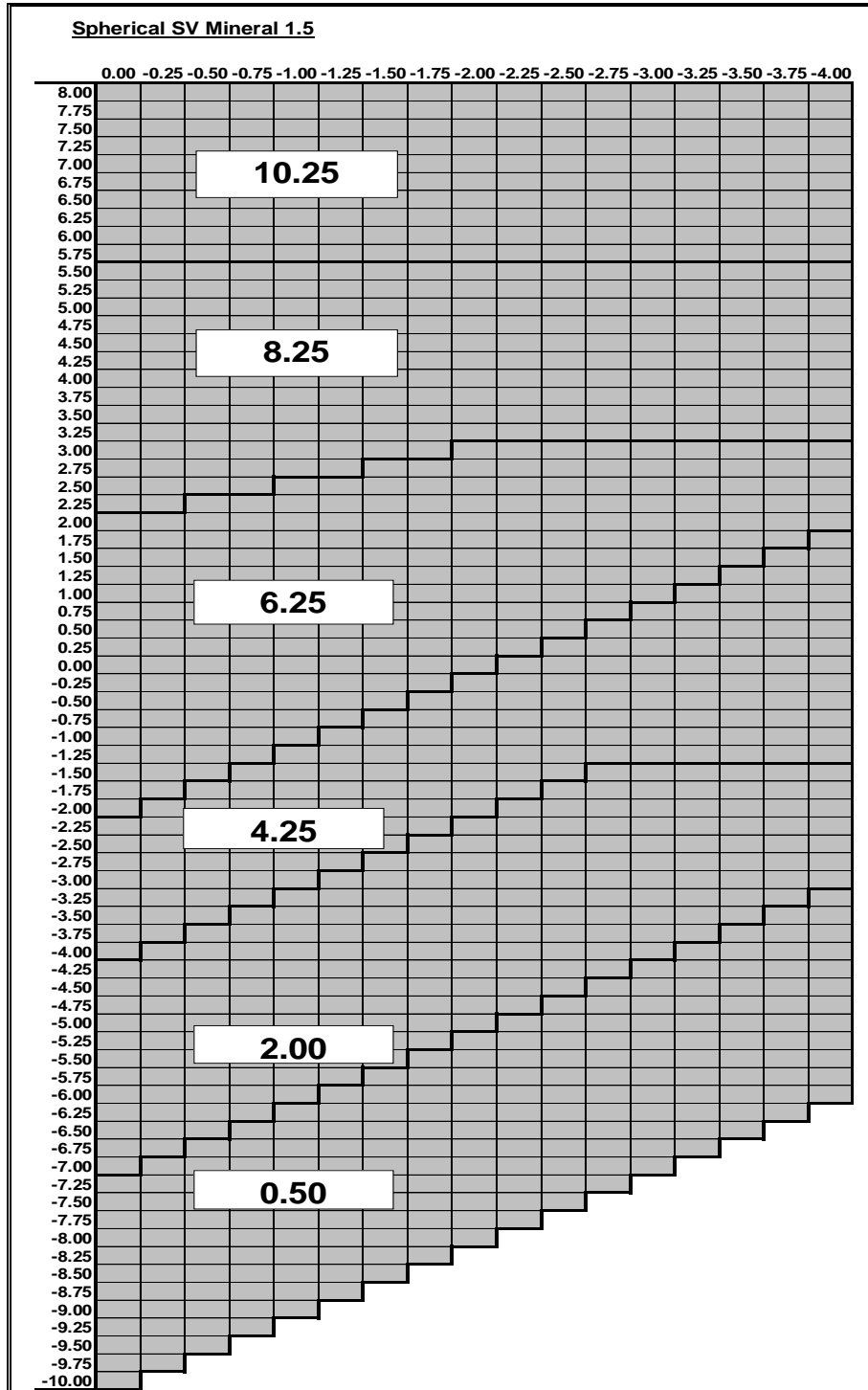
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PRODUCT FACT SHEET

Product Name

synchrony Semi-Finished Single Vision Spherical Mineral 1.5
White & PhotoGray Extra (PGX)

7. Base Curve Selection Chart



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