



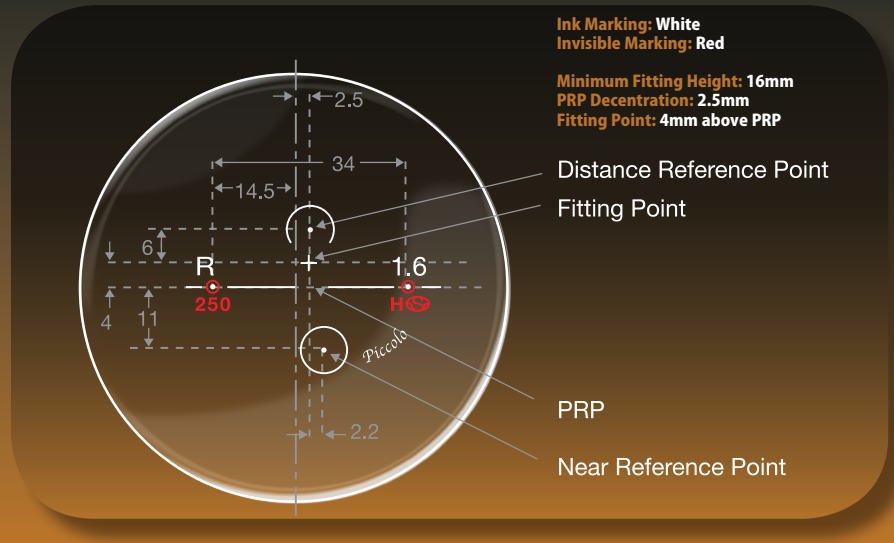
THE TECHNOLOGY BEHIND SHAMIR PICCOLO®

With a 16mm fitting height, Shamir Piccolo® is a semi-finished lens designed with a perfectly formulated short corridor.

Designing a progressive lens is a mathematical procedure that involves managing optical errors to create optimal fields of vision. The best PAL designs are those that manage all optical variables and excess cylinders to create a lens with adequate, clear fields of vision and are easy to wear.

When designing a short corridor lens, optical engineers must take into account all optical variables, while delivering a lens with a short corridor. To provide a short corridor, the lens designer may choose to manage unwanted astigmatism across the lens by either spreading it over a larger area in the lens or by increasing the density in limited areas.

Shamir Piccolo® provides low unwanted astigmatism below the 180 line, clear far vision and a wide reading channel.



HARD RESIN 1.50 (HC/UC)

Prescription Range

Sphere: -11.25[D] to +7.00[D]
Cylinder: up to -6.00[D]

Material Data:

Nominal Base	True Base 1.530	Base Radius (mm)	Sag 50mm*	Concave Curve	CT (mm)	ET (mm)	Diameter	Add Powers	Power Range
1.50	1.50	352.45	0.89	6.10	9.6	13.0	75/80	0.75 - 3.50	-8.50 to -6.25
3.00	3.15	168.26	1.87	4.60	11.7	12.9	75/80	0.75 - 3.50	-6.00 to -2.00
5.00	5.19	102.18	3.11	6.10	6.7	7.4	75/80	0.75 - 3.50	-1.75 to +1.00
6.50	6.52	81.27	3.94	6.10	8.7	7.3	75/80	0.75 - 3.50	+1.25 to +3.00
7.50	7.35	72.09	4.47	6.10	10.0	7.2	75/80	0.75 - 3.50	+3.25 to +6.00

Index Nd	1.498
Abbe Value Nd	58.0
Density gr/cm ³	1.31

*Do not sag! Use printed sag values for power calculations only. Minimum center thickness for surfacing: 2.0mm

HARD RESIN TRANSITIONS 1.50 (GRAY)

Prescription Range

Sphere: -8.50[D] to +6.00[D]
Cylinder: up to -6.00[D]

1.50	1.50	352.45	0.89	6.10	9.6	12.6	72/77	0.75 - 3.50	-8.50 to -6.25
3.00	3.15	168.26	1.87	4.60	11.7	12.7	72/77	0.75 - 3.50	-6.00 to -2.00
5.00	5.19	102.18	3.11	6.10	6.7	7.3	72/77	0.75 - 3.50	-1.75 to +1.00
6.50	6.52	81.27	3.94	6.10	8.7	7.4	72/77	0.75 - 3.50	+1.25 to +3.00
7.50	7.35	72.09	4.47	6.10	10.0	7.4	72/77	0.75 - 3.50	+3.25 to +6.00

Index Nd	1.497
Abbe Value Nd	57.0
Density gr/cm ³	1.27

*Do not sag! Use printed sag values for power calculations only. Minimum center thickness for surfacing: 2.0mm



SUPERLITE™ CLEAR 1.60 (HC/UC)

Prescription Range
 Sphere: -11.25 [D] to +7.00[D]
 Cylinder: up to -6.00[D]

Material Data:

Nominal Base	True Base 1.530	Base Radius (mm)	Sag 50mm*	Concave Curve	CT (mm)	ET (mm)	Diameter	Add Powers	Power Range
1.50	1.48	356.92	0.88	6.10	9.7	15.0	75/80	0.75 - 3.50	-11.25 to -6.25
3.00	3.13	169.12	1.86	6.10	10.3	13.8	75/80	0.75 - 3.50	-6.00 to -2.00
5.00	5.16	102.77	3.09	6.10	8.0	8.2	75/80	0.75 - 3.50	-1.75 to +1.00
6.50	6.50	81.60	3.92	6.10	10.0	8.2	75/80	0.75 - 3.50	+1.25 to +3.00
7.50	7.32	72.45	4.45	6.10	11.1	8.1	75/80	0.75 - 3.50	+3.25 to +7.00

Index Nd	1.592
Abbe Value Nd	42.0
Density gr/cm ³	1.30

*Do not sag! Use printed sag values for power calculations only. Minimum center thickness for surfacing: 1.5mm

SUPERLITE™ TRANSITIONS 1.60 (GRAY)

Prescription Range
 Sphere: -11.25 [D] to +7.00[D]
 Cylinder: up to -6.00[D]

1.50	1.48	356.92	0.88	6.10	9.7	14.6	72/77	1.00 - 3.50	-11.25 to -6.25
3.00	3.13	169.12	1.86	6.10	10.3	13.1	72/77	1.00 - 3.50	-6.00 to -2.00
5.00	5.16	102.77	3.09	6.10	8.0	8.1	72/77	1.00 - 3.50	-1.75 to +2.25
7.50	7.32	72.45	4.45	6.10	11.1	8.1	72/77	1.00 - 3.50	+2.50 to +7.00

Index Nd	1.592
Abbe Value Nd	42.0
Density gr/cm ³	1.30

*Do not sag! Use printed sag values for power calculations only. Minimum center thickness for surfacing: 1.5mm

SUPERLITE™ CLEAR 1.67 (HC/UC)

Prescription Range
 Sphere: -11.25[D] to +6.00[D]
 Cylinder: up to -6.00[D]

1.50	1.48	357.27	0.88	6.10	10.2	15.8	72/77	1.00 - 3.00	-11.25 to -6.25
3.00	2.98	178.07	1.76	6.10	8.8	12.5	72/77	1.00 - 3.00	-6.00 to -2.00
4.50	4.51	117.42	2.69	6.10	9.1	10.8	72/77	1.00 - 3.00	-1.75 to +2.00
5.75	5.75	92.23	3.45	6.10	8.2	8.4	72/77	1.00 - 3.00	+2.25 to +4.00
7.00	7.00	75.66	4.25	6.10	10.1	8.4	72/77	1.00 - 3.00	+4.25 to +6.00

Index Nd	1.664
Abbe Value Nd	32.0
Density gr/cm ³	1.37

*Do not sag! Use printed sag values for power calculations only. Minimum center thickness for surfacing: 1.5mm

SUPERLITE™ TRANSITIONS 1.67 (GRAY)

Prescription Range
 Sphere: -11.25[D] to +6.00[D]
 Cylinder: up to -6.00[D]

1.50	1.48	357.27	0.88	6.10	10.2	15.5	72/77	1.00 - 3.00	-11.25 to -6.25
3.00	2.98	178.07	1.76	6.10	8.8	12.2	72/77	1.00 - 3.00	-6.00 to -2.00
4.50	4.51	117.42	2.69	6.10	9.1	10.6	72/77	1.00 - 3.00	-1.75 to +2.00
5.75	5.75	92.23	3.45	6.10	8.2	8.3	72/77	1.00 - 3.00	+2.25 to +4.00
7.00	7.00	75.66	4.25	6.10	10.1	8.4	72/77	1.00 - 3.00	+4.25 to +6.00

Index Nd	1.664
Abbe Value Nd	32.0
Density gr/cm ³	1.37

*Do not sag! Use printed sag values for power calculations only. Minimum center thickness for surfacing: 1.5mm

POLYPLUS™ 1.59 (HC/NP)

Prescription Range

Sphere: -8.50[D] to +6.00[D]
Cylinder: up to -6.00[D]

Material Data:

Nominal Base	True Base 1.530	Base Radius (mm)	Sag 50mm*	Concave Curve	CT (mm)	ET (mm)	Diameter	Add Powers	Power Range
1.50	1.42	373.24	0.84	2.00	11.1	11.0	80/85	1.00 - 3.00	-8.50 to -6.25
3.00	3.27	162.08	1.94	3.00	9.1	7.8	80/85	1.00 - 3.00	-6.00 to -2.00
5.00	5.27	100.57	3.15	5.50	7.6	6.8	80/85	1.00 - 3.00	-1.75 to +2.25
7.50	7.21	73.51	4.38	7.50	11.2	10.0	80/85	1.00 - 3.00	+2.50 to +6.00

Index Nd	1.586
Abbe Value Nd	30.0
Density gr/cm ³	1.20

*Do not sag! Use printed sag values for power calculations only. Minimum center thickness for surfacing: 1.2mm

POLYPLUS™ 1.59 TRANSITIONS (GRAY)

Prescription Range

Sphere: -8.50[D] to +6.00[D]
Cylinder: up to -6.00[D]

1.50	1.42	373.24	0.84	2.00	11.1	11.0	80/85	1.00 - 3.00	-8.50 to -6.25
3.00	3.27	162.08	1.94	3.00	9.1	7.8	80/85	1.00 - 3.00	-6.00 to -2.00
5.00	5.27	100.57	3.15	5.50	7.6	6.8	80/85	1.00 - 3.00	-1.75 to +2.25
7.50	7.21	73.51	4.38	7.50	11.2	10.0	80/85	1.00 - 3.00	+2.50 to +6.00

Index Nd	1.586
Abbe Value Nd	30.0
Density gr/cm ³	1.20

*Do not sag! Use printed sag values for power calculations only. Minimum center thickness for surfacing: 1.2mm

GLASS 1.53 (CLEAR)

Prescription Range

Sphere: -5.25[D] to +6.00[D]
Cylinder: up to -6.00[D]

3.00	3.21	165.00	1.90	4.87	8.5	8.7	71/76	0.75 - 3.00	-5.25 to -3.00
5.00	5.22	101.55	3.13	5.62	7.5	6.1	71/76	0.75 - 3.00	-2.75 to +2.00
7.50	7.18	73.84	4.36	7.52	7.5	5.4	71/76	0.75 - 3.00	+2.25 to +6.00

Index Nd	1.523
Abbe Value Nd	58.5
Density gr/cm ³	2.54

*Do not sag! Use printed sag values for power calculations only. Minimum center thickness for surfacing: 2.0mm

GLASS 1.53 (THIN & DARK) (PHOTO GRAY EXTRA)

Prescription Range

Sphere: -5.25[D] to +6.00[D]
Cylinder: up to -6.00[D]

3.00	3.21	165.00	1.90	4.87	8.5	8.7	71/76	0.75 - 3.00	-5.25 to -3.00
5.00	5.22	101.55	3.13	5.62	7.5	6.1	71/76	0.75 - 3.00	-2.75 to +2.00
7.50	7.18	73.84	4.36	7.52	7.5	5.4	71/76	0.75 - 3.00	+2.25 to +6.00

Index Nd	1.523
Abbe Value Nd	57.0
Density gr/cm ³	2.38

*Do not sag! Use printed sag values for power calculations only. Minimum center thickness for surfacing: 2.0mm