

Windows & Filters

CURVED WINDOWS

Features

- Made from BK7 glass or UV grade fused silica
- Polished to high surface quality
- Standard substrates are available with a variety of radii of concave curvature

We offer two substrate materials spanning a range of thermal expansion coefficients. For applications in which thermal shock is absent and thermal stability is not critical, BK7 glass is a suitable and inexpensive material. For applications requiring high thermal stability or involving severe thermal shock, UV grade fused silica is a good choice.

Specifications

Material	BK7, UV FS
S1/S2 Surface Quality	20-10 scratch & dig (MIL-PRF-13830B)
S1/S2 Surface Flatness	$\lambda/10$ @ 633 nm
Curved Surface Radius Tolerance	$\pm 1\%$
Diameter Tolerance	+0.00 / -0.12 mm
Thickness Tolerance	± 0.2 mm

PLANO-CONCAVE WINDOWS

Presented substrates are *uncoated*.

For appropriate coating, please refer to the *Coatings section*.

Diameter D, mm	Edge thickness ET, mm	ROC, mm	BK7		UV FS	
			Catalogue number	Price, EUR	Catalogue number	Price, EUR
12.7	3.0	-25	010-0101E	32	010-1101E	57
12.7	3.0	-50	010-0103E	32	010-1103E	57
12.7	3.0	-75	010-0104E	32	010-1104E	57
12.7	3.0	-100	010-0105E	32	010-1105E	57
12.7	3.0	-150	010-0107E	32	010-1107E	57
12.7	3.0	-200	010-0108E	32	010-1108E	57
12.7	3.0	-250	010-0110E	32	010-1110E	57
12.7	3.0	-300	010-0111E	32	010-1111E	57
12.7	3.0	-400	010-0109E	32	010-1109E	57
12.7	3.0	-500	010-0115E	32	010-1115E	57
12.7	3.0	-1000	010-0120E	32	010-1120E	57
12.7	3.0	-1500	010-0123E	32	010-1123E	57
12.7	3.0	-2000	010-0125E	32	010-1125E	57
12.7	3.0	-3000	010-0130E	32	010-1130E	57
12.7	3.0	-4000	010-0140E	32	010-1140E	57
12.7	3.0	-5000	010-0150E	32	010-1150E	57

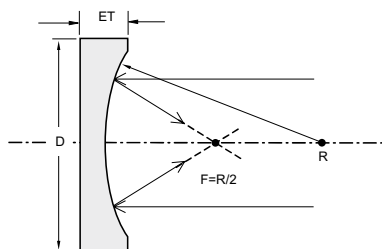
Diameter D, mm	Edge thickness ET, mm	ROC, mm	BK7		UV FS	
			Catalogue number	Price, EUR	Catalogue number	Price, EUR
12.7	6.0	-25	010-0101T6	33	010-1101T6	58
12.7	6.0	-50	010-0103T6	33	010-1103T6	58
12.7	6.0	-75	010-0104T6	33	010-1104T6	58
12.7	6.0	-100	010-0105T6	33	010-1105T6	58
12.7	6.0	-150	010-0107T6	33	010-1107T6	58
12.7	6.0	-200	010-0108T6	33	010-1108T6	58
12.7	6.0	-250	010-0110T6	33	010-1110T6	58
12.7	6.0	-300	010-0111T6	33	010-1111T6	58
12.7	6.0	-400	010-0109T6	33	010-1109T6	58
12.7	6.0	-500	010-0115T6	33	010-1115T6	58
12.7	6.0	-1000	010-0120T6	33	010-1120T6	58
12.7	6.0	-1500	010-0123T6	33	010-1123T6	58
12.7	6.0	-2000	010-0125T6	33	010-1125T6	58
12.7	6.0	-3000	010-0130T6	33	010-1130T6	58
12.7	6.0	-4000	010-0140T6	33	010-1140T6	58
12.7	6.0	-5000	010-0150T6	33	010-1150T6	58

Diameter D, mm	Edge thickness ET, mm	ROC, mm	BK7		UV FS	
			Catalogue number	Price, EUR	Catalogue number	Price, EUR
25.4	6.0	-50	010-0201E	55	010-1201E	75
25.4	6.0	-75	010-0207E	55	010-1207E	75
25.4	6.0	-100	010-0202E	55	010-1202E	75
25.4	6.0	-125	010-0208E	55	010-1208E	75
25.4	6.0	-150	010-0203E	55	010-1203E	75
25.4	6.0	-200	010-0204E	55	010-1204E	75
25.4	6.0	-250	010-0205E	55	010-1205E	75
25.4	6.0	-300	010-0206E	55	010-1206E	75
25.4	6.0	-350	010-0211E	55	010-1211E	75
25.4	6.0	-400	010-0209E	55	010-1209E	75
25.4	6.0	-500	010-0210E	55	010-1210E	75
25.4	6.0	-600	010-0212E	55	010-1212E	75
25.4	6.0	-700	010-0214E	55	010-1214E	75
25.4	6.0	-750	010-0215E	55	010-1215E	75
25.4	6.0	-800	010-0216E	55	010-1216E	75
25.4	6.0	-900	010-0217E	55	010-1217E	75
25.4	6.0	-1000	010-0220E	55	010-1220E	75
25.4	6.0	-1500	010-0222E	55	010-1222E	75
25.4	6.0	-2000	010-0225E	55	010-1225E	75
25.4	6.0	-2500	010-0226E	55	010-1226E	75
25.4	6.0	-3000	010-0227E	55	010-1227E	75
25.4	6.0	-4000	010-0229E	55	010-1229E	75
25.4	6.0	-5000	010-0230E	55	010-1230E	75
25.4	6.0	-6000	010-0235E	55	010-1235E	75
25.4	6.0	-8000	010-0240E	65	010-1240E	80
25.4	6.0	-10000	010-0250E	65	010-1250E	80

Diameter D, mm	Edge thickness ET, mm	ROC, mm	BK7		UV FS	
			Catalogue number	Price, EUR	Catalogue number	Price, EUR
50.8	10.0	-100	010-0501E	110	010-1501E	210
50.8	10.0	-150	010-0508E	110	010-1508E	210
50.8	10.0	-200	010-0502E	110	010-1502E	210
50.8	10.0	-250	010-0503E	110	010-1503E	210
50.8	10.0	-300	010-0506E	110	010-1506E	210
50.8	10.0	-400	010-0504E	110	010-1504E	210
50.8	10.0	-500	010-0505E	110	010-1505E	210
50.8	10.0	-600	010-0507E	110	010-1507E	210
50.8	10.0	-750	010-0510E	110	010-1510E	210
50.8	10.0	-800	010-0511E	110	010-1511E	210
50.8	10.0	-1000	010-0515E	110	010-1515E	210
50.8	10.0	-1500	010-0518E	110	010-1518E	210
50.8	10.0	-2000	010-0520E	110	010-1520E	210
50.8	10.0	-2500	010-0521E	110	010-1521E	210
50.8	10.0	-3000	010-0522E	110	010-1522E	210
50.8	10.0	-4000	010-0524E	110	010-1524E	210
50.8	10.0	-5000	010-0525E	110	010-1525E	210
50.8	10.0	-6000	010-0530E	110	010-1530E	210
50.8	10.0	-8000	010-0540E	110	010-1540E	210
50.8	10.0	-10000	010-0550E	110	010-1550E	210

Diameter D, mm	Edge thickness ET, mm	ROC, mm	BK7		UV FS	
			Catalogue number	Price, EUR	Catalogue number	Price, EUR
76.2	12.7	-200	010-0705E	195	010-1705E	285
76.2	12.7	-300	010-0708E	195	010-1708E	285
76.2	12.7	-400	010-0710E	195	010-1710E	285
76.2	12.7	-500	010-0712E	195	010-1712E	285
76.2	12.7	-600	010-0714E	195	010-1714E	285
76.2	12.7	-800	010-0720E	195	010-1720E	285
76.2	12.7	-1000	010-0725E	195	010-1725E	285
76.2	12.7	-1500	010-0730E	195	010-1730E	285
76.2	12.7	-2000	010-0735E	195	010-1735E	285
76.2	12.7	-3000	010-0745E	195	010-1745E	285

Diameter D, mm	Edge thickness ET, mm	ROC, mm	BK7		UV FS	
			Catalogue number	Price, EUR	Catalogue number	Price, EUR
101.6	15.0	-300	010-0808E	440	010-1808E	540
101.6	15.0	-400	010-0810E	440	010-1810E	540
101.6	15.0	-500	010-0812E	440	010-1812E	540
101.6	15.0	-600	010-0814E	440	010-1814E	540
101.6	15.0	-800	010-0820E	440	010-1820E	540
101.6	15.0	-1000	010-0825E	440	010-1825E	540
101.6	15.0	-1500	010-0830E	440	010-1830E	540
101.6	15.0	-2000	010-0835E	440	010-1835E	540
101.6	15.0	-3000	010-0845E	440	010-1845E	540



Housing accessories

Kinematic Mirror Mount 840-0020

Find more at EksmaOptics.com



PLANO-CONVEX WINDOWS

Presented substrates are **uncoated**.

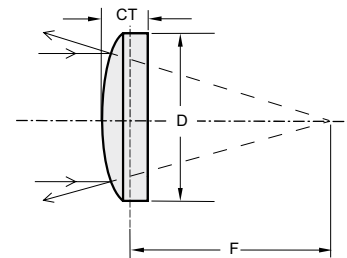
For appropriate coating, please refer to the **Coatings Section**.

Diameter D, mm	Center thickness CT, mm	ROC, mm	BK7		UV FS	
			Catalogue number	Price, EUR	Catalogue number	Price, EUR
12.7	6.0	+50	011-0103E	34	011-1103E	60
12.7	6.0	+100	011-0105E	34	011-1105E	60
12.7	6.0	+150	011-0107E	34	011-1107E	60
12.7	6.0	+200	011-0108E	34	011-1108E	60
12.7	6.0	+300	011-0111E	34	011-1111E	60
12.7	6.0	+400	011-0113E	34	011-1113E	60
12.7	6.0	+500	011-0115E	34	011-1115E	60

Diameter D, mm	Center thickness CT, mm	ROC, mm	BK7		UV FS	
			Catalogue number	Price, EUR	Catalogue number	Price, EUR
50.8	10.0	+100	011-0502E	120	011-1502E	220
50.8	10.0	+150	011-0503E	120	011-1503E	220
50.8	10.0	+200	011-0504E	120	011-1504E	220
50.8	10.0	+300	011-0505E	120	011-1505E	220
50.8	10.0	+400	011-0506E	120	011-1506E	220
50.8	10.0	+500	011-0509E	120	011-1509E	220
50.8	10.0	+600	011-0510E	120	011-1510E	220
50.8	10.0	+800	011-0512E	120	011-1512E	220
50.8	10.0	+1000	011-0515E	120	011-1515E	220
50.8	10.0	+1500	011-0518E	120	011-1518E	220
50.8	10.0	+2000	011-0520E	120	011-1520E	220
50.8	10.0	+3000	011-0522E	120	011-1522E	220
50.8	10.0	+4000	011-0525E	120	011-1525E	220

We provide a wide selection of shapes and sizes, with plano, spherical or cylindrical surfaces.

Diameter D, mm	Center thickness CT, mm	ROC, mm	BK7		UV FS	
			Catalogue number	Price, EUR	Catalogue number	Price, EUR
25.4	6.0	+50	011-0201E	65	011-1201E	85
25.4	6.0	+75	011-0207E	65	011-1207E	85
25.4	6.0	+100	011-0202E	65	011-1202E	85
25.4	6.0	+150	011-0203E	65	011-1203E	85
25.4	6.0	+200	011-0204E	65	011-1204E	85
25.4	6.0	+300	011-0205E	65	011-1205E	85
25.4	6.0	+400	011-0206E	65	011-1206E	85
25.4	6.0	+500	011-0209E	65	011-1209E	85
25.4	6.0	+600	011-0210E	65	011-1210E	85
25.4	6.0	+800	011-0212E	65	011-1212E	85
25.4	6.0	+1000	011-0215E	65	011-1215E	85
25.4	6.0	+1500	011-0216E	65	011-1216E	85
25.4	6.0	+2000	011-0220E	65	011-1220E	85
25.4	6.0	+3000	011-0222E	65	011-1222E	85
25.4	6.0	+4000	011-0225E	65	011-1225E	85
25.4	6.0	+5000	011-0227E	65	011-1227E	85

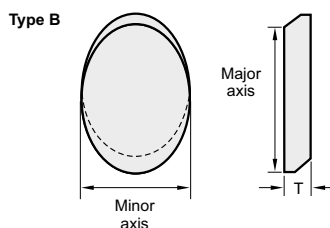
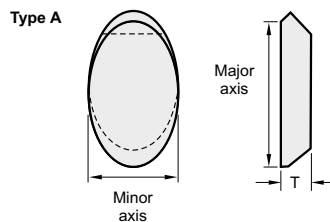


ELLIPTICAL WINDOWS

Features

- Bend light at precise angles with minimum wave distortion

Elliptical windows bend light at precise angles with minimum wave distortion due to elongated major axis. Precision 45 degree elliptical flat mirrors are ideal for technical and astronomical applications.



Specifications

Material	BK7, UV FS
Surface Quality S1, S2	20-10 scratch & dig (MIL-PRF-13830B)
Surface Flatness S1, S2	$\lambda/4 @ 633 \text{ nm}$
Axis Tolerance	+0.00 / -0.12 mm
Thickness Tolerance	$\pm 0.25 \text{ mm}$
Parallelism	<3 min

Presented substrates are **uncoated**. For appropriate coating, please refer to the **Coatings Section**.

Material	Minor axis, mm	Major axis, mm	Thickness T, mm	Catalogue number	Price, EUR
BK7	18.0	25.0	3.0	020-0183	47
	25.0	35.0	4.0	020-0254	54
	30.0	42.5	4.0	020-0304	62
UV FS	18.0	25.0	3.0	020-1183	78
	25.0	35.0	4.0	020-1254	83
	30.0	42.5	4.0	020-1304	109

Please add letter A to the catalogue number for type A and letter B for type B. Contact us for other size or precision requirements.