

Windows & Filters

CURVED WINDOWS

- 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.

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



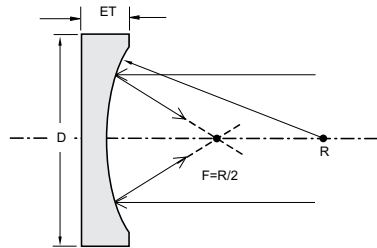
Most of Curved Windows are available for fast off-the-shelf delivery. Check the availability at www.eksmaoptics.com



HOUSING ACCESSORIES

Kinematic Mirror Mount 840-0020

See page 8.58



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

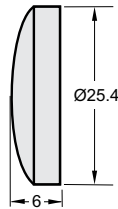
Presented substrates are uncoated. For appropriate coating, please refer to the *Coatings section*.

Catalogue number		Diameter D, mm		Edge thickness	ROC,	Price, EUR
BK7	UV FS	Metric	English	ET, mm	mm	BK7 / UV FS
010-0103	010-1103	12.5	12.7	3.0	-50	32 / 57
010-0105	010-1105	12.5	12.7	3.0	-100	32 / 57
010-0107	010-1107	12.5	12.7	3.0	-150	32 / 57
010-0108	010-1108	12.5	12.7	3.0	-200	32 / 57
010-0110	010-1110	12.5	12.7	3.0	-250	32 / 57
010-0115	010-1115	12.5	12.7	3.0	-500	32 / 57
010-0120	010-1120	12.5	12.7	3.0	-1000	32 / 57
010-0201	010-1201	25.0	25.4	6.0	-50	55 / 75
010-0207	010-1207	25.0	25.4	6.0	-75	55 / 75
010-0202	010-1202	25.0	25.4	6.0	-100	55 / 75
010-0203	010-1203	25.0	25.4	6.0	-150	55 / 75
010-0204	010-1204	25.0	25.4	6.0	-200	55 / 75
010-0205	010-1205	25.0	25.4	6.0	-250	55 / 75
010-0206	010-1206	25.0	25.4	6.0	-300	55 / 75
010-0209	010-1209	25.0	25.4	6.0	-400	55 / 75
010-0210	010-1210	25.0	25.4	6.0	-500	55 / 75
010-0212	010-1212	25.0	25.4	6.0	-600	55 / 75
010-0215	010-1215	25.0	25.4	6.0	-750	55 / 75
010-0216	010-1216	25.0	25.4	6.0	-800	55 / 75
010-0220	010-1220	25.0	25.4	6.0	-1000	55 / 75
010-0222	010-1222	25.0	25.4	6.0	-1500	55 / 75
010-0225	010-1225	25.0	25.4	6.0	-2000	55 / 75
010-0226	010-1226	25.0	25.4	6.0	-2500	55 / 75
010-0227	010-1227	25.0	25.4	6.0	-3000	55 / 75
010-0229	010-1229	25.0	25.4	6.0	-4000	55 / 75
010-0230	010-1230	25.0	25.4	6.0	-5000	55 / 75
010-0503	010-1503	50.0	50.8	10.0	-250	110 / 210
010-0505	010-1505	50.0	50.8	10.0	-500	110 / 210
010-0510	010-1510	50.0	50.8	10.0	-750	110 / 210
010-0515	010-1515	50.0	50.8	10.0	-1000	110 / 210
010-0520	010-1520	50.0	50.8	10.0	-2000	110 / 210
010-0525	010-1525	50.0	50.8	10.0	-5000	110 / 210

Please add letter M to the catalogue number for metric dimensions and letter E for English. Call us for other size, radius of curvature, or precision requirements.

Plano-convex windows

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



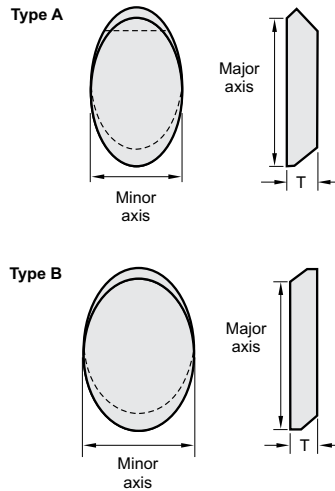
Catalogue number	Diameter D, mm	Edge thickness	ROC, mm	Price, EUR		
					BK7	UV FS
011-0201	011-1201	25.0	25.4	6.0	+50	55 / 85
011-0207	011-1207	25.0	25.4	6.0	+75	55 / 85
011-0202	011-1202	25.0	25.4	6.0	+100	55 / 85
011-0203	011-1203	25.0	25.4	6.0	+150	55 / 85
011-0204	011-1204	25.0	25.4	6.0	+200	55 / 85
011-0205	011-1205	25.0	25.4	6.0	+300	55 / 85
011-0206	011-1206	25.0	25.4	6.0	+400	55 / 85
011-0209	011-1209	25.0	25.4	6.0	+500	55 / 85
011-0210	011-1210	25.0	25.4	6.0	+600	55 / 85
011-0212	011-1212	25.0	25.4	6.0	+800	55 / 85
011-0215	011-1215	25.0	25.4	6.0	+1000	55 / 85
011-0216	011-1216	25.0	25.4	6.0	+1500	55 / 85
011-0220	011-1220	25.0	25.4	6.0	+2000	55 / 85
011-0222	011-1222	25.0	25.4	6.0	+3000	55 / 85
011-0225	011-1225	25.0	25.4	6.0	+4000	55 / 85
011-0227	011-1227	25.0	25.4	6.0	+5000	55 / 85

Please add letter *M* to the catalogue number for metric dimensions and letter *E* for English.

ELLIPTICAL WINDOWS

- 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 S ₁ , S ₂	20-10 scratch & dig (MIL-PRF-13830B)
Surface Flatness S ₁ , S ₂	λ/4 @ 633 nm
Axis Tolerance	+0.00 -0.12 mm
Thickness Tolerance	±0.25 mm
Parallelism	<3 min

Standard High Reflectivity Coatings
see page 1.3 for more information

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

Material	Catalogue number	Minor axis, mm	Major axis, mm	Thickness T, mm	Price, EUR
BK7	020-0183	18.0	25.0	3.0	43
	020-0254	25.0	35.0	4.0	49
	020-0304	30.0	42.5	4.0	56
UV FS	020-1183	18.0	25.0	3.0	71
	020-1254	25.0	35.0	4.0	75
	020-1304	30.0	42.5	4.0	99

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.