

DATA SHEET Zinc Sulphide (ZnS) Windows - Standard

★ Physical Properties

Grain size,um	2-10
Density, g/cm ³ , @298K	4.09
Chemical purity	>99.995%
CTE, k ⁻¹ ,@ 373 K	7.0X10 ⁻⁶
Thermal conductivity, Wcm ⁻¹ K ⁻¹	0.19

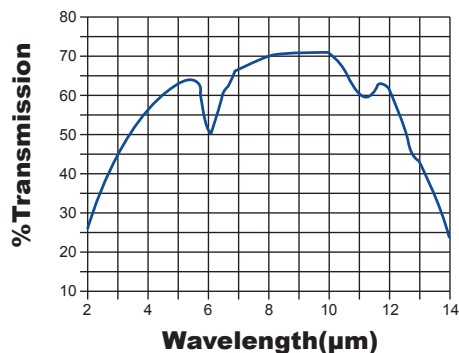
★ Mechanical Properties

Knoop Hardness, kg/mm ²	200-230
Flexural Strength, Mpa	105
Young`s modulus,GPa	77
Poissons ratio	0.29

★ Optical Properties

Refractive index, @9um	2.212
Index of refraction inhomogeneity($\Delta n/n$),@ 10.6 μm	<1x10 ⁻⁴
Thermo-optic coefficient(dn/dT),@10.6 μm , (298-358K)	4.1x10 ⁻⁵
Bulk absorption coefficient, cm ⁻¹ , 10.6 μm	<0.2

★ Transmission



★ Product Specifications

Shapes	Planar windows, spherical domes and lenses
Maximum size	For window:600x350x20mm
	For dome:Φ300x15mm
Surface quality	Polishing, or AR coating