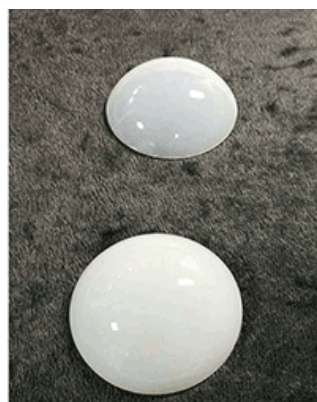
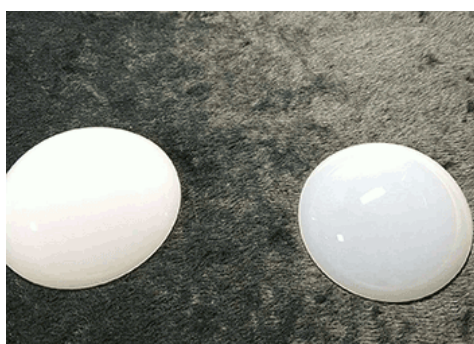


Hot-pressed MgF2 domes for missiles and launch tubes

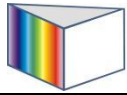
- flexural strength of at least about 20,000 psi
- High transmission in 2-7.5um
- a knoop hardness of at least about 1350 kg mm-2

Hot-pressed MgF2 domes for missiles and launch tubes is provided having high ultraviolet transmittance and high strength properties. It is mainly used as mid-infrared wave window material. It is used to produce mid-infrared wave vector dome. With high infrared transmittance, small thermal expansion coefficient, good mechanical property, and low preparation cost, it is the best material for mid-infrared wave vector dome.



Basic Properties

Physical and optical properties	
Transmission Range	0.7 to 9 μm
Knoop Hardness	>539kg/mm ²
Fracture Strength	96MPa
Compression Strength	>300MPa
Bending Strength	>90MPa
Density	>3.17g/cm ³
Thermal Expansion	<1.3x10 ⁻⁵ K ⁻¹ (25-300℃)
Refractive Index	1.3812+/-0.005(at 0.5893um)
Transmittance	>85%(2-7.5um)



SPECIFICATIONS

Specifications	
Materials	Hot-pressed MgF2
Diameter range	~ 280mm
Thickness Tolerance	+/-0.2mm (Optional: +/-0.1mm and +/-0.05mm)
Surface Quality	60/40 S/D
Frings (N)	customized
Irregularity (deta N)	customized
Chamfer	0.1~0.3mmx45degree
Coating	Uncoated (Note: coating is unnecessary for its high transmission)

Note: the domes with other specifications is available upon customer's request.

Transmission of hot-pressed MgF2 materials

