

Optical Material

AMTIR-1 Ge₃₃As₁₂Se₅₅Glass



AMTIR-1 is an amorphous IR transmission material. It was originally produced for night vision systems, but it has other applications including optical elements and optical sensors for remote temperature sensing.

Optical Properties - AMTIR-1

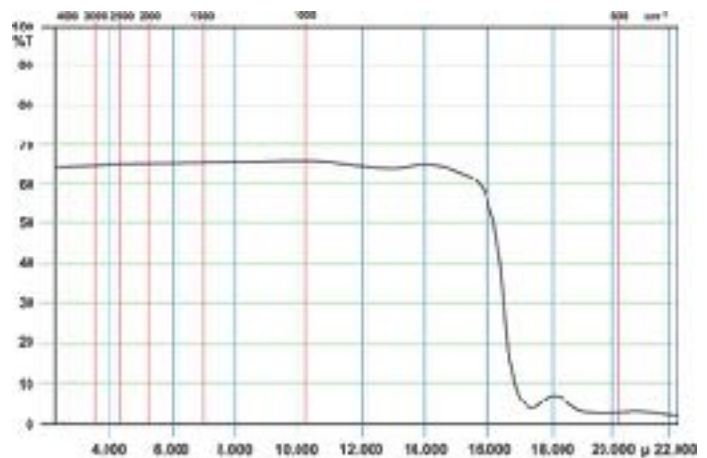
Transmission Range: 750nm to 14 μ m
Refractive Index: 2.6055 @ 1.0 μ m, 2.4977 @ 10.0 μ m

Physical Properties - AMTIR-1

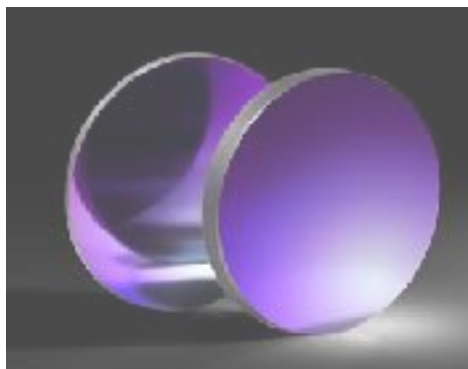
Hardness (Knoop): 170 kg/mm²
Young's Modulus: 3.2 x 10⁶ psi
Modulus of Rupture: 2700 psi
Upper Use Temperature: 300°C
Structure: Amorphous

Chemical Properties - AMTIR-1

Solubility: Insoluble in water.



AMTIR - 1
(amorphous material transmitting infrared radiation)



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In focus