LWG 系列红外硫系玻璃

杭州长波红外科技有限公司
HangZhou Long-Wave Infrared Technology Co., Ltd

Infrared Chalcogenide Glass LWG-6

Composition: As_2Se_3

Mechanical Properties

Density	4.63 g/cm^3
Hardness (Knoop)	1.04 GPa
Young's Modulus	18.3 GPa

Thermal Properties

Transition Temperature	185 °C
Specific Heat	0.36 J/(g·K)
Thermal Conductivity	0.24W/(m·K)
Thermal Expansion	20.8 ppm/K

Optical Properties

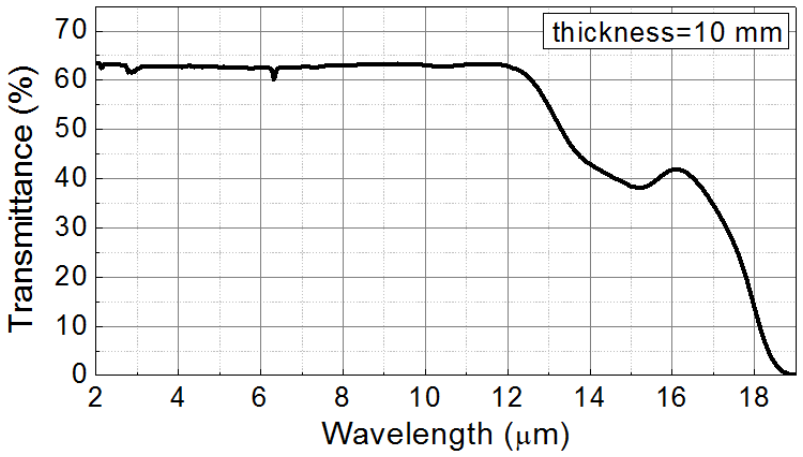
Refractive index	
λ (μm)	n_λ
2.0	2.8192
3.0	2.8011
4.0	2.7943
5.0	2.7904
6.0	2.7876
7.0	2.7851
8.0	2.7826
9.0	2.7801
10.0	2.7775
11.0	2.7746
12.0	2.7714
13.0	2.7679
14.0	2.7639

Refractive index tolerance: ±0.001

Abbe number	
λ (μm)	ν
3-5	168
8-12	159

Thermo-optic coefficient (-40-100 °C)	
λ (μm)	dn/dt
10	35 ppm/K

Transmittance (10 mm)	
λ (μm)	τ (%)
2.0	63.4
3.0	62.3
4.0	62.8
5.0	62.7
6.0	62.6
7.0	62.7
8.0	63.1
9.0	63.2
10.0	63.1
11.0	63.2
12.0	62.9
13.0	54.7
14.0	43.0



Size of Supply:

- Diameter: 5~150 mm
- Thickness: 2~50 mm