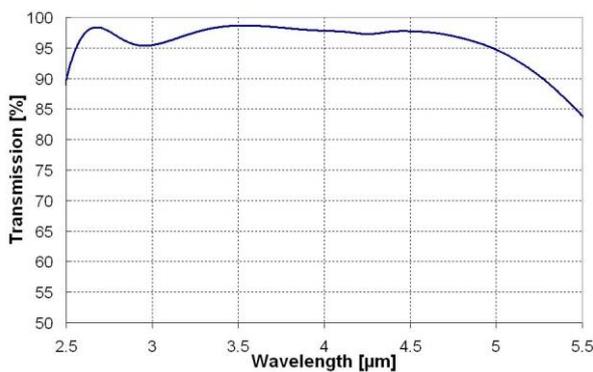


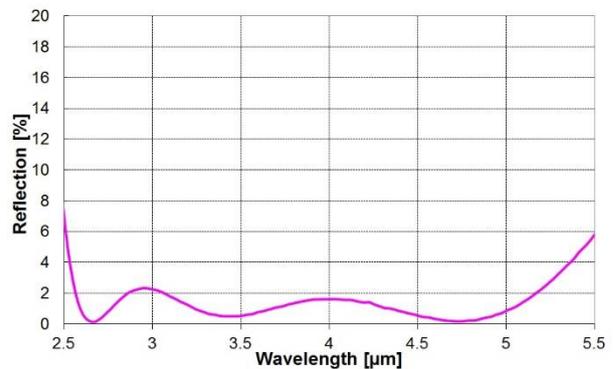
JENODUR 419/001

Broadband Antireflection Coating for IR on Sapphire

Transmission curve



Reflection curve



Optical properties

Rave (3,0 – 5,0 µm) < 1,5 %, per surface

Typical data for reflection (one side coated witness piece) and transmission (both sides coated witness piece):

Rave (3,0 – 5,0 µm) < 1,25 %, per surface
Tave (3,0 – 5,0 µm) > 97,5 %

Applications

- Durable broadband antireflection coating
- Tested on 1mm thick coated witness pieces
- For Sapphire windows and lenses
- Spectral range from 3,0 to 5,0 µm
- Angle of incidence: 0 – 15 °

Durability

Adhesion: MIL-C-48497A / section 4.5.3.1
Humidity: MIL-C-48497A / section 4.5.3.2
Abrasion resistance: MIL-C-48497A / section 4.5.3.3
Temperature change: MIL-C-48497A / section 4.5.4.1
Solvent resistance: MIL-C-48497A / section 4.5.4.2

Substrate material

Sapphire

Special features

This coating is absolutely free of any radioactive material. Please contact us if you need another wavelength range or angle of incidence.