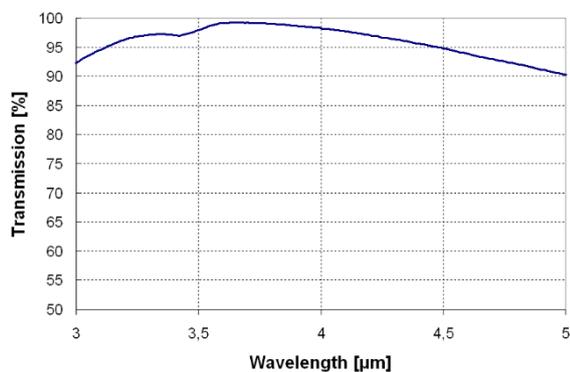


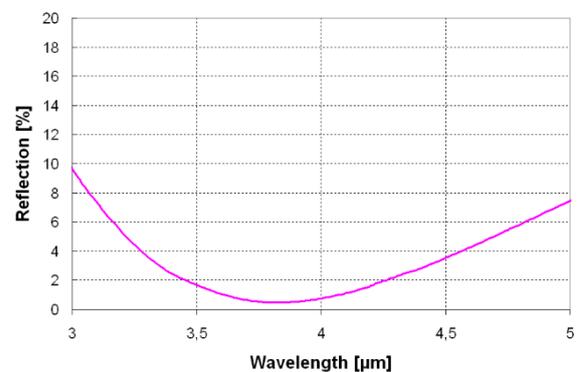
JENOCARB 101

DLC-Antireflection Coating for IR on Germanium

Transmission curve



Reflection curve



Optical properties

Rave (3,0 – 5,0 µm) < 3,2 % per surface
 Rmin < 0,7 % per surface

Including BBAR backside coating:
 Tave (3,0 – 5,0 µm) > 92,9 %
 Tmax > 97,8%

Applications

- Very durable antireflection coating
- Preferred to be applied on outside components for use under extreme environmental conditions
- Tested on 1 mm thick coated witness pieces
- For Germanium windows and lenses
- Diameters up to 300 mm
- Spectral range 3,0 to 5,0 µm

Durability

Windscreen Wiper Test:	TS 1888 / P5.4.3
Adhesion:	MIL-C-675C / P4.5.12
Humidity:	MIL-C-675C / P4.5.8
Severe Abrasion:	MIL-C-675C / P4.5.10
Temperature Influence:	MIL-M-13508 / P4.4.4
Salt solubility:	MIL-C-675C / P4.5.7
Salt spray:	MIL-C-675C / P4.5.9
Boiling Test:	DIN 58196-2 / P5.2
Durable in hydrochloric acid (pH=1)	

Substrate material

Germanium

Special features

This coating is very hard and very durable. Other specifications are possible on request.