

Diamond Like Carbon

3μm-5μm

UCS_Si_02

Productnumber: 2Si000002

This is an extremely rugged and abrasion resistant anti-reflection coating for use in the 3-5 micron waveband. These properties make it ideal for external surface applications where extreme environmental conditions will be encountered.

It is normally used in conjunction with a high efficiency anti-reflection coating (UCS_Si_01).

Spectral - additional

Transmission (Average)	>92% 3μm-5μm	For a 1mm thick witness piece, coated one side UCS_Si_02 and one side UCS_Si_01.
Reflection (Average)	<5% 3μm-5μm	For a 1mm thick witness piece, coated one side UCS_Si_02.
Angle of Incidence	0°-20°	

Environmental Properties

Adhesion	MIL-C-48497A, 08/09/1980, para 4.5.3.1
Adhesion Remark	Tape Test
Humidity	MIL-C-48497A, 08/09/1980, para 4.5.3.2
Humidity Remark	24Hrs, 49°C, 95-100% relative humidity
Abrasion	TS1888, 01/07/1979, para 5.4.3
Abrasion Remark	10,000 wipes with sandscreen wiper in water/sand slurry.
Salt spray	MIL-C-675C, 22/08/1980, para 4.5.9
Salt spray Remark	24hrs salt spray fog exposure
Salt Soln	MIL-C-48497A, 08/09/1980, para 4.5.5.2
Salt Soln Remark	24hrs immersion in salt water
Solubility	TS1888, 01/07/1979, para 5.2.2.1
Solubility Remark	28 days in Solubility Chamber

Sizes

Up to 275mm in diameter

