

SGL Carbon Group EK 305 Graphite

Category : Carbon , Graphite

Material Notes:

Good mechanical strength, good sliding properties, high temperature resistance, high thermal shock resistance, low wettability, high corrosion resistance, high thermal conductivity, high purity, and good electrical conductivity. Typical Applications: Bearings, seals for compressors. Certified for use in oxygenous atmosphere. Information provided by SGL Carbon Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_SGL-Carbon-Group-EK-305-Graphite.php

Physical Properties	Metric	English	Comments
Density	2.55 g/cc	0.0921 lb/in ³	
Open Porosity	<= 2.5 %	<= 2.5 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	Size/Load - 10/150
Hardness, Shore C	102	102	
Modulus of Elasticity	20.7 GPa	3000 ksi	
Flexural Strength	79.3 MPa	11500 psi	
Compressive Strength	290 MPa	42000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	5.94 Åµm/m-Å°C @Temperature 20.0 Å°C	3.30 Åµin/in-Å°F @Temperature 68.0 Å°F	
Thermal Conductivity	32.9 W/m-K	228 BTU-in/hr-ftÅ²-Å°F	
Maximum Service Temperature, Air	510 Å°C	950 Å°F	In oxygen
Maximum Service Temperature, Inert	538 Å°C	1000 Å°F	Reducing Atm.

Descriptive Properties	Value	Comments
Impregnation	Antimony	

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