

SGL Carbon Group EK 200 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 potable water and/or in foodstuff; 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-200-Graphite.php

Physical Properties	Metric	English	Comments
Density	1.82 g/cc	0.0658 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	107	107	
Modulus of Elasticity	13.8 GPa	2000 ksi	
Flexural Strength	48.3 MPa	7000 psi	
Compressive Strength	221 MPa	32000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.74 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	4.30 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	25.9 W/m-K	180 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	204 $\text{Å}^\circ\text{C}$	400 $\text{Å}^\circ\text{F}$	In oxygen
Maximum Service Temperature, Inert	204 $\text{Å}^\circ\text{C}$	399 $\text{Å}^\circ\text{F}$	Reducing Atm.

Descriptive Properties	Value	Comments
Impregnation	Resin	

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