

SGL Carbon Group EK 40 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-40-Graphite.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	
Open Porosity	14 %	14 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	95	95	Size/Load - 10/150
Hardness, Shore C	80	80	
Modulus of Elasticity	8.96 GPa	1300 ksi	
Flexural Strength	34.5 MPa	5000 psi	
Compressive Strength	100 MPa	14500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	3.78 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	2.10 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	24.2 W/m-K	168 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	510 $\text{Å}^\circ\text{C}$	950 $\text{Å}^\circ\text{F}$	In oxygen
Maximum Service Temperature, Inert	2510 $\text{Å}^\circ\text{C}$	4550 $\text{Å}^\circ\text{F}$	Reducing Atm.

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