

SGL Carbon Group EK 10 Carbon 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: Standard seals
Information provided by SGL Carbon Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_SGL-Carbon-Group-EK-10-Carbon-Graphite.php

Physical Properties	Metric	English	Comments
Density	1.66 g/cc	0.0600 lb/in ³	
Open Porosity	14 %	14 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	Size/Load - 5/100
Hardness, Shore C	75	75	
Modulus of Elasticity	15.9 GPa	2300 ksi	
Flexural Strength	44.8 MPa	6500 psi	
Compressive Strength	148 MPa	21500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	3.06 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	1.70 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	10.4 W/m-K	72.0 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	399 $\text{Å}^\circ\text{C}$	750 $\text{Å}^\circ\text{F}$	In oxygen
Maximum Service Temperature, Inert	1204 $\text{Å}^\circ\text{C}$	2199 $\text{Å}^\circ\text{F}$	Reducing Atm.

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