Poco Graphite SCF Semiconductor Grade Graphite

Category : Carbon , Graphite

Material Notes:

Although it is impossible to identify differences between various grades of graphite by looking at them, each grade has a special set of characteristics and physical properties that determine their performance under specific conditions. The manufacturing process for each grade is tightly controlled to produce materials that have a uniform microstructure and the right balance of strength, grain size and hardness to offer optimum performance for their intended applications.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Poco-Graphite-SCF-Semiconductor-Grade-Graphite.php

Physical Properties	Metric	English	Comments
Apparent Bulk Density	1.77 g/cc	0.0639 lb/in³	
Particle Size	6.0 µm	6.0 µm	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	91	91	
Tensile Strength, Yield	65.0 MPa	9430 psi	Estimated at 70% of flexural strength
Flexural Strength	95.0 MPa	13800 psi	
Compressive Strength	170 MPa	24700 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.60 µm/m-°C	4.22 µin/in-°F	
Thermal Conductivity	60.0 W/m-K	416 BTU-in/hr-ft²-°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00280 ohm-cm	0.00280 ohm-cm	

Descriptive Properties	Value	Comments
Oxidation Threshold	480°C	Temperature that results in 1% weight loss in 24 hours. Oxidation threshold increases by approximately 100°C if graphite is purified.

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