

Poco Graphite DFP 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-DFP-Semiconductor-Grade-Graphite.php

Physical Properties	Metric	English	Comments
Apparent Bulk Density	1.77 g/cc	0.0639 lb/in ³	
Particle Size	4.0 µm	4.0 µm	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	74	74	
Tensile Strength, Yield	60.0 MPa	8700 psi	Estimated at 70% of flexural strength
Flexural Strength	85.0 MPa	12300 psi	
Compressive Strength	140 MPa	20300 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	8.10 µm/m-°C	4.50 µin/in-°F	
Thermal Conductivity	95.0 W/m-K	659 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00150 ohm-cm	0.00150 ohm-cm	

Descriptive Properties	Value	Comments
Oxidation Threshold	440°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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