

## Poco Graphite SFG 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-SFG-Semiconductor-Grade-Graphite.php](http://www.lookpolymers.com/polymer_Poco-Graphite-SFG-Semiconductor-Grade-Graphite.php)

Physical Properties	Metric	English	Comments
Apparent Bulk Density	1.80 g/cc	0.0650 lb/in <sup>3</sup>	
Particle Size	1.0 µm	1.0 µm	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	
Tensile Strength, Yield	75.0 MPa	10900 psi	Estimated at 70% of flexural strength
Flexural Strength	110 MPa	16000 psi	
Compressive Strength	170 MPa	24700 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	8.10 µm/m-°C	4.50 µin/in-°F	
Thermal Conductivity	72.0 W/m-K	500 BTU-in/hr-ft <sup>2</sup> -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00195 ohm-cm	0.00195 ohm-cm	

Descriptive Properties	Value	Comments
Oxidation Threshold	450°C	Temperature that results in 1% weight loss in 24 hours. Oxidation threshold increases by approximately 100°C if graphite is purified.

## Contact Songhan Plastic Technology Co.,Ltd.

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