

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

Physical Properties	Metric	English	Comments
Apparent Bulk Density	1.82 g/cc	0.0658 lb/in <sup>3</sup>	
Particle Size	10 µm	10 µm	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	
Tensile Strength, Yield	40.0 MPa	5800 psi	Estimated at 70% of flexural strength
Flexural Strength	60.0 MPa	8700 psi	
Compressive Strength	110 MPa	16000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	8.30 µm/m-°C	4.61 µin/in-°F	
Thermal Conductivity	105 W/m-K	729 BTU-in/hr-ft <sup>2</sup> -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00122 ohm-cm	0.00122 ohm-cm	

Descriptive Properties	Value	Comments
Oxidation Threshold	460°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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