

## Poco Graphite DFP-1C (Copper impregnated) 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-1C-Copper-impregnated-Semiconductor-Grade-Graphite.php](http://www.lookpolymers.com/polymer_Poco-Graphite-DFP-1C-Copper-impregnated-Semiconductor-Grade-Graphite.php)

Physical Properties	Metric	English	Comments
Apparent Bulk Density	3.12 g/cc	0.113 lb/in <sup>3</sup>	
Particle Size	5.0 µm	5.0 µm	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	
Tensile Strength, Yield	65.0 MPa	9430 psi	Estimated at 70% of flexural strength
Flexural Strength	117 MPa	17000 psi	
Compressive Strength	210 MPa	30500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	8.50 µm/m-°C	4.72 µin/in-°F	
Thermal Conductivity	175 W/m-K	1210 BTU-in/hr-ft <sup>2</sup> -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000270 ohm-cm	0.000270 ohm-cm	

Descriptive Properties	Value	Comments
Oxidation Threshold	500°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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