

Poco Graphite PYROGRAPH Ion Implant Grade Graphite

Category : Carbon , Graphite

Material Notes:

Pyrograph is pyrolytically infiltrated graphite. POCO's proprietary process infiltrates the base material to a minimum depth of 0.1 inch throughout the entire surface of the component. This process seals the graphite surface and reduces particle generation in the chamber. The manufacturing process begins with a specially formulated graphite. Once a part has been machined, it goes through a purification process that typically results in a purity level of < 2ppm. The final step is a pyrolytic vapor infiltration that produces a hard, uniform surface. Vapor phase processing allows deeper penetration of the pyrolytic carbon into the base material.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Poco-Graphite-PYROGRAPH-Ion-Implant-Grade-Graphite.php

Physical Properties	Metric	English	Comments
Apparent Bulk Density	1.56 g/cc	0.0564 lb/in ³	
Particle Size	5.0 µm	5.0 µm	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	
Flexural Strength	53.4 MPa	7750 psi	
Compressive Strength	97.9 MPa	14200 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.50 µm/m-°C	4.17 µin/in-°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00201 ohm-cm	0.00201 ohm-cm	

Descriptive Properties	Value	Comments
Purity	0.999995	
Pyrolytic Carbon	12% pick-up	

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