

Poco Graphite ZXF-5Q Industrial Grade Graphite

Category : Carbon , Graphite

Material Notes:

SSH hardness is 86. General Poco Specialty Graphite Information: Poco's high strength, fine-grained, isotropic graphites offer maximum design flexibility. Easily machined. High strength and small particle size allow fabrication of complex components containing tight tolerances. Post synthesis treatments available include purification or impregnation with resins, oxidation inhibitors, or metals. Surface treatments offer improved wear characteristics and particle reduction. Some applications of Poco specialty graphites include anode plates for wet cells, fuel cell plates for solid polymer cells, air bearings, hot gas valves, high temperature bearings, bushings, and seals, hot press dies and rams, furnace furniture/fixtures, rocket engine nozzles, molten metal casting components, vacuum furnace heating elements, space vehicle nose cones, mirrors and optical structures, and satellite heat shields.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Poco-Graphite-ZXF-5Q-Industrial-Grade-Graphite.php

Physical Properties	Metric	English	Comments
Apparent Bulk Density	1.78 g/cc	0.0643 lb/in ³	
Open Porosity	80 %	80 %	
Porosity	20 %	20 %	
Particle Size	1.0 µm	1.0 µm	
Pore Size	0.300 microns	0.0118 mil	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	
Tensile Strength, Yield	79.0 MPa	11500 psi	
Elongation at Yield	0.78 %	0.78 %	
Modulus of Elasticity	14.5 GPa	2100 ksi	
Flexural Strength	112 MPa	16200 psi	
Compressive Strength	175 MPa	25400 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	8.10 µm/m-°C	4.50 µin/in-°F	
Thermal Conductivity	70.0 W/m-K	486 BTU-in/hr-ft ² -°F	

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

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