Momentive Performance Materials HOPG Graphite Monochromator

Category : Carbon , Graphite

Material Notes:

Advanced Ceramics' graphite monochromators are highly oriented forms of high purity pyrolytic graphite which diffract x-rays and neutrons with greater efficiency than any other material. In x-ray analysis, intensity is increased 3 to 5 times over that obtained with conventionally used crystals. A singly-bent focusing monochromator using graphite yields 3 times the intensity of lithium fluoride at equivalent resolution. GE Advanced Ceramics originally introduced, and still offers, graphite monochromators with the lowest mosaic spread (>= 0.4°) available.Information provided by Momentive Performance Materials, formerly GE Advanced Ceramics.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-HOPG-Graphite-Monochromator.php

Physical Properties	Metric	English	Comments
Density	2.255 - 2.265 g/cc	0.08147 - 0.08183 lb/in³	

Thermal Properties	Metric	English	Comments
CTE, linear	-0.100 µm/m-°C @Temperature 20.0 °C	-0.0556 µin/in-°F @Temperature 68.0 °F	Slightly negative in parallel (002) direction.
CTE, linear, Transverse to Flow	20.0 µm/m-°C @Temperature 23.0 °C	11.1 µin/in-°F @Temperature 73.4 °F	
Thermal Conductivity	0.800 W/m-K	5.55 BTU-in/hr-ft²-°F	in perpendicular (002) direction
	16.0 - 20.0 W/m-K	111 - 139 BTU-in/hr-ft²-°F	in parallel (002) direction

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000350 - 0.0000450 ohm-cm	0.0000350 - 0.0000450 ohm-cm	parallel (002) direction
	0.150 - 0.250 ohm-cm	0.150 - 0.250 ohm-cm	perpendicular (002) direction

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