

Momentive Performance Materials PolarTherm® PT180 Boron Nitride (BN) Powder

Category : Ceramic , Nitride , Other Engineering Material , Additive/Filler for Polymer

Material Notes:

Fine Hexagonal BN Powder When used in a variety of polymeric materials, PolarTherm™'s heat dissipating capability helps extend the service life and enhance the reliability of electronic components and assemblies. 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-PolarTherm-PT180-Boron-Nitride-BN-Powder.php

Physical Properties	Metric	English	Comments
Density	2.25 g/cc	0.0813 lb/in ³	Theoretical
Particle Size	5.0 - 11 µm	5.0 - 11 µm	average
Specific Surface Area	15 - 21 m ² /g	15 - 21 m ² /g	

Mechanical Properties	Metric	English	Comments
Hardness, Knoop	11	11	

Thermal Properties	Metric	English	Comments
CTE, linear	<= 1.00 µm/m-°C	<= 0.556 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	0.794 J/g-°C	0.190 BTU/lb-°F	
Thermal Conductivity	266 - 284 W/m-K	1850 - 1970 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Dielectric Constant	3.9	3.9	
Dissipation Factor	<= 0.00020	<= 0.00020	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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