

Momentive Performance Materials BIN77 Aluminum Nitride/ Boron Nitride Composite

Category : Ceramic , Ceramic Matrix Composite , Nitride

Material Notes:

Boron Nitride is a unique engineering material. It is a soft, machinable ceramic which can be combined with other refractory ceramics including Aluminum Oxide, Silicon Nitride, Aluminum Nitride, Mullite and Titanium Diboride. This results in composites which are machinable, thermal shock resistant, and chemically compatible in a wide range of environments. In combination with Titanium Diboride, for example, BN can be used as a heating source for the aluminum metallization of films and papers. BN composites are also used as break-rings in the horizontal continuous castings of steel and nozzles in rapid solidification processes. Other composite applications include the following: High temperature refractory shapes Glass forming tools and refractories Molds, dies and refractories for metal forming Furnace vents, stacks and fixtures 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-BIN77-Aluminum-Nitride-Boron-Nitride-Composite.php

Physical Properties	Metric	English	Comments
Density	2.43 g/cc	0.0878 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	27.6 - 62.1 GPa	4000 - 9000 ksi	Sonic Modulus
Flexural Strength	124 MPa	18000 psi	
	27.6 MPa @Temperature 1500 °C	4000 psi @Temperature 2730 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	5.00 - 6.00 Åµm/m-Å°C @Temperature 20.0 Å°C	2.78 - 3.33 Åµin/in-Å°F @Temperature 68.0 Å°F	
Thermal Conductivity	25.0 - 40.0 W/m-K	174 - 278 BTU-in/hr-ftÅ²-Å°F	

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