

Momentive Performance Materials AC6043 Titanium Diboride/Boron Nitride Composite

Category : Ceramic , Boride , Ceramic Matrix Composite , Nitride

Material Notes:

TiB₂/BN. Density is 83-92% of theoretical. Sonic Modular1 is 4 to 17 x 10⁶ psi. 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: Break-rings in the horizontal continuous castings of steel, and nozzles in rapid solidification processes. 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.

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http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-AC6043-Titanium-DiborideBoron-Nitride-Composite.php

Mechanical Properties	Metric	English	Comments
Flexural Strength	117 MPa	17000 psi	
	16.5 MPa	2390 psi	
	@Temperature 1500 °C	@Temperature 2730 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	4.00 - 6.00 µm/m-°C	2.22 - 3.33 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	26.0 W/m-K	180 BTU-in/hr-ft ² -°F	

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