

## CoorsTek Boron Carbide Reaction-Bonded Boron Carbide

Category : Ceramic , Carbide

**Material Notes:**

Lowest density for ultra-lightweight designs

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CoorsTek-Boron-Carbide-Reaction-Bonded-Boron-Carbide.php](http://www.lookpolymers.com/polymer_CoorsTek-Boron-Carbide-Reaction-Bonded-Boron-Carbide.php)

Physical Properties	Metric	English	Comments
Density	2.65 g/cc	0.0957 lb/in <sup>3</sup>	ASTM-C 20

Mechanical Properties	Metric	English	Comments
Hardness, Knoop	25.5	25.5	Gpa; KNOOP 1000 gm
Modulus of Elasticity	379 GPa	55000 ksi	ASTM-C848
Flexural Strength	250 MPa	36300 psi	MOR; ASTM-F417
Compressive Strength	1721 MPa	249600 psi	ASTM-C773
Poissons Ratio	0.18	0.18	ASTM-C848
Fracture Toughness	3.00 - 4.00 MPa-m <sup>1/2</sup>	2.73 - 3.64 ksi-in <sup>1/2</sup>	KIc; Notched Beam
Shear Modulus	161 GPa	23400 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	4.50 μm/m-°C	2.50 μin/in-°F	ASTM-C372
	@Temperature 25.0 - 1000 °C	@Temperature 77.0 - 1830 °F	
Thermal Conductivity	50.0 W/m-K	347 BTU-in/hr-ft <sup>2</sup> -°F	ASTM-C408

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