

M Cubed Technologies SSC-802 Reaction-Bonded Silicon Carbide

Category : Ceramic , Carbide , Ceramic Matrix Composite

Material Notes:

Medium-grained reaction-bonded SiC for high wear applications. Bullnoses, fan liners, hydrocyclone liners, etc. Can be cast into very large shapes (greater than 4 ft. square, 5-6 inches thick) Information provided by M Cubed Technologies, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_M-Cubed-Technologies-SSC-802-Reaction-Bonded-Silicon-Carbide.php

Physical Properties	Metric	English	Comments
Density	3.00 g/cc	0.108 lb/in ³	ASTM C135

Mechanical Properties	Metric	English	Comments
Knoop Microhardness	1200	1200	kg/mm ² ; ASTM C1326
	@Load 2.00 kg	@Load 4.41 lb	
Modulus of Elasticity	380 GPa	55100 ksi	ASTM E494
Flexural Strength	280 MPa	40600 psi	ASTM C1161
Poissons Ratio	0.17	0.17	ASTM E494
Fracture Toughness	4.00 MPa-m ^{1/2}	3.64 ksi-in ^{1/2}	ASTM C1421
Shear Modulus	162 GPa	23500 ksi	Calculated

Thermal Properties	Metric	English	Comments
CTE, linear	2.90 $\mu\text{m}/\text{m}\cdot\text{°C}$	1.61 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM E831
	@Temperature 25.0 - 100 °C	@Temperature 77.0 - 212 °F	
Thermal Conductivity	180 W/m-K	1250 BTU-in/hr-ft ² -°F	ASTM E1461

Descriptive Properties	Value	Comments
Matrix	Si	
Particle Reinforcement	SiC	
Vol. % Reinforcement	80	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.comEmail : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China