

Sumitomo Bakelite North America CF 9040A Carbon Fiber Reinforced Phenolic

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Carbon Fiber Composite

Material Notes:

CF 9040A is a high strength carbon fiber phenolic molding compound. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-CF-9040A-Carbon-Fiber-Reinforced-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 g/cc	0.0181 lb/in ³	ISO 60
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183
Water Absorption	0.90 %	0.90 %	ISO 62
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	100	100	ISO 2039/2
Tensile Strength at Break	120 MPa	17400 psi	ISO 527
Flexural Strength	245 MPa	35500 psi	ISO 178
Flexural Modulus	23.0 GPa	3340 ksi	ISO 178
Compressive Strength	320 MPa	46400 psi	ISO 604
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.56 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E831
CTE, linear, Transverse to Flow	20.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	11.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E831

Descriptive Properties	Value	Comments
Color	Black	
Form	Pellet	
Molding Method	Compression	
	Injection	
	Transfer	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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