

Vyncolit Vyntec® CF8131 Carbon Fiber Reinforced Phenolic

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

Material Notes:

VYNTEC® CF8050 is a carbon fiber reinforced phenolic moldable composite with good tribological and superior mechanical properties combined with low density. Very good chemical resistance in several oils. Datasheet is based on postcured test specimens. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-Vyntec-CF8131-Carbon-Fiber-Reinforced-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.570 g/cc	0.0206 lb/in ³	ISO 60
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Water Absorption	0.10 %	0.10 %	ISO 62
Linear Mold Shrinkage	0.00020 cm/cm	0.00020 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	108 MPa	15700 psi	ISO 527-1
Elongation at Break	0.40 %	0.40 %	ISO 527-1
Tensile Modulus	31.0 GPa	4500 ksi	ISO 527-1
Flexural Strength	239 MPa	34700 psi	ISO 178
Flexural Modulus	28.0 GPa	4060 ksi	ISO 178
Compressive Strength	200 MPa	29000 psi	ISO 604
Charpy Impact Unnotched	1.09 J/cm ²	5.19 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	0.280 J/cm ²	1.33 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	4.00 µm/m-°C	2.22 µin/in-°F	TMA
CTE, linear, Transverse to Flow	27.0 µm/m-°C	15.0 µin/in-°F	TMA
Deflection Temperature at 1.8 MPa (264 psi)	>= 250 °C	>= 482 °F	ISO 75 Af
Shrinkage	0.020 %	0.020 %	Post Shrinkage; ISO 2577

Descriptive Properties	Value	Comments
Color	Black	
Molding Method	Compression	
	Injection	
	Transfer	

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