

Applied Composites 8079 Modified Vinylester SMC

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Vinyl Ester , Vinyl Ester Sheet Molding Compound

Material Notes:

Industry Application: ElectricalProduct Application: Transmission ProductDistinct Features: Low Moisture and Absorption, Permeability, Paintable, Flexible Design Parameter, Thick Cross Sections, High FlowInformation provided by Applied Composites Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Applied-Composites-8079-Modified-Vinylester-SMC.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	ASTM D792
Water Absorption	<= 0.10 %	<= 0.10 %	ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	Cold Part VS Cold Tool; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	55	55	ASTM D2583
Hardness, Rockwell M	111	111	ASTM D785
Tensile Strength, Ultimate	65.5 MPa	9500 psi	ASTM D638
Tensile Modulus	11.0 GPa	1600 ksi	ASTM D638
Flexural Strength	159 MPa	23000 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	Tangent; ASTM D790
Compressive Strength	145 MPa	21000 psi	ASTM D695
Izod Impact, Notched	6.41 J/cm	12.0 ft-lb/in	ASTM D256
Taber Abrasion, mg/1000 Cycles	0.30	0.30	% Loss 1000 Cycles; FTMS1091

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	Flexural Load; ASTM D648
Flammability, UL94	V-0	V-0	1/4 in; UL746
	V-0	V-0	1/8 in; UL746
	V-0	V-0	1/16 in; UL746

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