

Applied Composites 8041 Polyester SMC

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass SMC

Material Notes:

Industry Application: ElectricalProduct Application: Business MachinesDistinct Features: UL 94-VO, Radiant Panel

Order this product through the following link:

http://www.lookpolymers.com/polymer_Applied-Composites-8041-Polyester-SMC.php

Physical Properties	Metric	English	Comments
Density	1.85 g/cc	0.0668 lb/in ³	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D570
Linear Mold Shrinkage	0.00 cm/cm	0.00 in/in	Cold Part VS Cold Tool; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	50	50	ASTM D2583
Hardness, Rockwell M	110	110	ASTM D785
Tensile Strength, Ultimate	75.8 MPa	11000 psi	ASTM D638
Tensile Modulus	12.4 GPa	1800 ksi	ASTM D638
Flexural Strength	179 MPa	26000 psi	ASTM D790
Flexural Modulus	10.3 GPa	1500 ksi	Tangent; ASTM D790
Compressive Strength	172 MPa	25000 psi	ASTM D695
Izod Impact, Notched	7.47 J/cm	14.0 ft-lb/in	ASTM D256
Taber Abrasion, mg/1000 Cycles	0.60	0.60	% Loss 1000 Cycles; FTMS1091

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	204 °C	400 °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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