

Applied Composites 8050 Polyester SMC

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

Material Notes:

Industry Application: Electrical Product Application: Business Machines
Distinct Features: Radiant Panel, UL 94-V0, Low Shrink, Pigmentable
Information provided by Applied Composites Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Applied-Composites-8050-Polyester-SMC.php

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 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	55	55	ASTM D2583
Tensile Strength, Ultimate	96.5 MPa	14000 psi	ASTM D638
Tensile Modulus	13.1 GPa	1900 ksi	ASTM D638
Flexural Strength	179 MPa	26000 psi	ASTM D790
Flexural Modulus	4.48 GPa	650 ksi	Secant at 2.5 Deflection; ASTM D790
	8.62 GPa	1250 ksi	Secant at 0.5 Deflection; ASTM D790
	11.7 GPa	1700 ksi	Tangent; ASTM D790
Compressive Strength	165 MPa	24000 psi	ASTM D695
Izod Impact, Notched	8.01 J/cm	15.0 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.81 J/cm @Temperature 23.0 °C	9.00 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 232 °C	>= 450 °F	Flexural Load; ASTM D648
Flammability, UL94	V-0	V-0	1/16 in, Equivalent to UL94-V5; UL746
	V-0	V-0	1/4 in, Equivalent to UL94-V5; UL746
	V-0	V-0	1/8 in, Equivalent to UL94-V5; UL746

Thermal Properties

Metric

English

Comments

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