

Applied Composites 8022 Polyester SMC

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

Material Notes:

Industry Application: ConstructionProduct Application: Water TreatmentDistinct Features: Ideal for Buried Applications, Construction, High Corrosion Resistance in Waste Water Treatment, Dimensional StabilityInformation provided by Applied Composites Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Applied-Composites-8022-Polyester-SMC.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D570
Linear Mold Shrinkage	0.0012 cm/cm	0.0012 in/in	Cold Part VS Cold Tool; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	45	45	ASTM D2583
Tensile Strength, Ultimate	82.7 MPa	12000 psi	ASTM D638
Tensile Modulus	10.3 GPa	1500 ksi	ASTM D638
Flexural Strength	152 MPa	22000 psi	ASTM D790
Flexural Modulus	3.79 GPa	550 ksi	Secant at 2.5 Deflection; ASTM D790
	4.83 GPa	700 ksi	Secant at 0.5 Deflection; ASTM D790
	8.96 GPa	1300 ksi	Tangent; ASTM D790
Izod Impact, Notched	5.87 J/cm	11.0 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.01 J/cm @Temperature 23.0 °C	15.0 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

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