

IDI Composites 44-1 Thermoset Polyester, Molding

Category : Polymer , Thermoset , Polyester, TS , Thermoset Polyester Glass Filled BMC

Material Notes:

Multi-purpose medium strength material with excellent moldability and low cost.Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_IDI-Composites-44-1-Thermoset-Polyester-Molding.php

Physical Properties	Metric	English	Comments
Density	1.95 g/cc	0.0704 lb/in ³	
Water Absorption	0.15 %	0.15 %	in 24 hours; ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	30 - 40	30 - 40	ASTM D2583
Tensile Strength, Ultimate	41.0 MPa	5950 psi	ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	13.0 GPa	1890 ksi	ASTM D790
Compressive Strength	152 MPa	22000 psi	ASTM D695
Izod Impact, Notched	2.20 J/cm	4.12 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 Â°C	>= 500 Â°F	ASTM D648
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	10.6 kV/mm	269 kV/in	ASTM D149
Arc Resistance	>= 180 sec	>= 180 sec	ASTM D495

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