

IDI Composites A-205 Thermoset Polyester, Sheet

Category : Polymer , Thermoset , Composite SMC , Polyester, TS , Thermoset Polyester Glass SMC

Material Notes:

AUTOMOTIVE - Versatile family of compounds specifically designed for automotive structural applications. Low shrink characteristics, heat resistance, long-term dimensional stability, and corrosion resistance. Excellent paintability. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_IDI-Composites-A-205-Thermoset-Polyester-Sheet.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	
Water Absorption	0.10 %	0.10 %	in 24 hours; ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	35 - 45	35 - 45	ASTM D2583
Tensile Strength, Ultimate	90.0 MPa	13100 psi	ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	13.0 GPa	1890 ksi	ASTM D790
Compressive Strength	193 MPa	28000 psi	ASTM D695
Izod Impact, Notched	9.50 J/cm	17.8 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	15.0 kV/mm	381 kV/in	ASTM D149

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