

Haysite 42000 Polyester SMC, 22% Glass Reinforced

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

Material Notes:

The 42000 series sheet molding compound is an electrical grade designed for compression molded parts requiring high strength and good electrical properties. This material possesses excellent moldability and is recognized by UL with a 94V-0 flame rating at .060" wall thickness.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Haysite-42000-Polyester-SMC-22-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.75 g/cc	0.0632 lb/in ³	ASTM D572
Water Absorption	0.18 %	0.18 %	ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	69.0 MPa	10000 psi	
Flexural Strength	172 MPa	24900 psi	
Compressive Strength	193 MPa	28000 psi	
Izod Impact, Notched	9.90 J/cm	18.5 ft-lb/in	edgewise; ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 Å°C	266 Å°F	temperature rating
Flammability, UL94	V-0	V-0	File No.E-27875

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.4 @Frequency 60 Hz	4.4 @Frequency 60 Hz	ASTM D150
Dielectric Strength	17.0 kV/mm	432 kV/in	Perpendicular (ASTM D149), Short Time
Dissipation Factor	0.0096 @Frequency 60 Hz	0.0096 @Frequency 60 Hz	ASTM D150
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	

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