

Haysite 42100 Polyester SMC, 22% Glass Reinforced

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

Material Notes:

Haysite Grade 42100 is a fiber glass reinforced thermoset polyester sheet molding compound exhibiting excellent moldability. It is designed for compression molded parts requiring high strength and good electrical properties.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Haysite-42100-Polyester-SMC-22-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.84 g/cc	0.0665 lb/in ³	ASTM D572
Water Absorption	0.16 %	0.16 %	ASTM D570
Linear Mold Shrinkage	0.0025 cm/cm	0.0025 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	103 MPa	14900 psi	
Flexural Strength	152 MPa	22000 psi	
Compressive Strength	124 MPa	18000 psi	
Izod Impact, Notched	9.80 J/cm	18.4 ft-lb/in	edgewise; ASTM D256

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

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.2	5.2	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	17.0 kV/mm	432 kV/in	Perpendicular (ASTM D149), Short Time
Dissipation Factor	0.0189	0.0189	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	180 sec	180 sec	ASTM D495

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