Haysite EHC Glass Reinforced Polyester Sheet, Electrical Grade (GPO1)

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

Material Notes:

This IEEE Class F 155°C high strength material exhibits substantial resistance to cold flow or creep under heat and pressure. Suggested applications include motor slot wedges, washers, brush plates and terminal boards. Available in thicknesses - .032" - 2.00". Standard color - Brown. Meets Gov't Specs - LP-509, I-24768/6.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Haysite-EHC-Glass-Reinforced-Polyester-Sheet-Electrical-Grade-GPO1.php

Physical Properties	Metric	English	Comments
Density	2.00 g/cc	0.0723 lb/in³	ASTM D572
Water Absorption	0.31 %	0.31 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	74	74	
Tensile Strength, Ultimate	90.0 MPa	13100 psi	
Flexural Strength	186 MPa	27000 psi	
Flexural Modulus	11.8 GPa	1710 ksi	
Compressive Strength	379 MPa	55000 psi	
Shear Strength	124 MPa	18000 psi	ASTM D732
Izod Impact, Notched	6.10 J/cm	11.4 ft-lb/in	edgewise; ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	155 °C	311 °F	Approximate temperature class

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.3 @Frequency 1e+6 Hz	4.3 @Frequency 1e+6 Hz	ASTM D150
	4.67 @Frequency 60 Hz	4.67 @Frequency 60 Hz	ASTM D150
Dielectric Strength	13.0 kV/mm @Thickness 1.59 mm	330 kV/in @Thickness 0.0625 in	Perpendicular, Short Time in Oil and Air; ASTM D149
	0.013	0.013	

Electrical Properties	Metric @Frequency 1e+6 Hz	English @Frequency 1e+6 Hz	Comments
Dissipation Factor	0.019 @Frequency 60 Hz	0.019 @Frequency 60 Hz	ASTM D150
Arc Resistance	180 sec	180 sec	ASTM D495

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