

Haysite HST-II Glass Reinforced Polyester Sheet, Electrical Grade

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

Material Notes:

UL, Inc. has granted HST-II the highest thermal recognition ever achieved by any glass polyester laminate (U.L. File No. E81893). HST-II has a 220Â° C/210Â° C rating for 1/8" thick and heavier, and a 210Â° C/210Â° C rating for 1/32" thick up to 1/8" thick. HST-II is a high temperature polyester laminate that exhibits excellent retention of electrical and mechanical properties at elevated temperatures. Applications for HST-II can be found in high voltage transformers, D.C. motors and elsewhere when materials with high thermal indices are required. Available thicknesses - .031" - 2.00". Standard color - Brown.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.62 g/cc	0.0585 lb/inÂ³	ASTM D572
Water Absorption	0.30 %	0.30 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	52	52	
Tensile Strength, Ultimate	90.0 MPa	13100 psi	
Flexural Strength	172 MPa	24900 psi	
Flexural Modulus	12.0 GPa	1740 ksi	
Compressive Strength	228 MPa	33100 psi	
Shear Strength	97.0 MPa	14100 psi	ASTM D732
Izod Impact, Notched	6.40 J/cm	12.0 ft-lb/in	edgewise; ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	220 Â°C	428 Â°F	Approximate temperature class
Flammability, UL94	HB	HB	File No.E81893

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.2	4.2	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	19.0 kV/mm	483 kV/in	Perpendicular, Short Time in Oil and Air; ASTM D149
	@Thickness 1.59 mm	@Thickness 0.0625 in	

Electrical Properties	0.010 Metric	0.010 English	Comments
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index	>= 500 V	>= 500 V	

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