

Haysite ETS-FR-II Glass Reinforced Polyester Sheet, Electrical Grade (GPO2)

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

Material Notes:

A NEMA GPO-2 glass mat reinforced thermoset polyester molded sheet. ETS-FR-II is UL recognized with a flame rating of 94V-0 and arc resistance of 185 seconds. This grade is an IEEE Thermal Class B, 130Â°C electrical/160Â°C mechanical material. Typical uses are general purpose electrical insulation application where flame retardancy is required. Available thicknesses - .032" - 2.00". Standard color - Red.

Meets Gov't Specs - LP-509, I-24768/6.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Haysite-ETS-FR-II-Glass-Reinforced-Polyester-Sheet-Electrical-Grade-GPO2.php

Physical Properties	Metric	English	Comments
Density	1.84 g/cc	0.0665 lb/in ³	ASTM D572
Water Absorption	0.20 %	0.20 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	46	46	
Tensile Strength, Ultimate	69.0 MPa	10000 psi	
Flexural Strength	145 MPa	21000 psi	
Flexural Modulus	6.90 GPa	1000 ksi	
Compressive Strength	207 MPa	30000 psi	
Shear Strength	97.0 MPa	14100 psi	ASTM D732
Izod Impact, Notched	4.30 J/cm	8.06 ft-lb/in	edgewise; ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 Â°C	266 Â°F	Approximate temperature class
Flammability, UL94	V-0	V-0	File No.E81893

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.4	4.4	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	22.0 kV/mm	559 kV/in	Perpendicular, Short Time in Oil and Air; ASTM D149
	@Thickness 1.59 mm	@Thickness 0.0625 in	
	0.031	0.031	

Designation Factor Electrical Properties	Metric @ Frequency 60 Hz	English @ Frequency 60 Hz	ASTM D150 Comments
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index	>= 500 V	>= 500 V	

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