

Haysite ETR-FR-C Glass Reinforced Polyester Sheet, Electrical Grade (GPO3)

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

Material Notes:

ETR-FR-C meets NEMA GPO-3 requirements and exceeds NEMA in dielectric strength, arc resistance, and track resistance. This U.L. recognized grade is highly flame retardant and low smoke generating. ETR- FR-C is an IEEE 130Â°C electrical/160Â°C mechanical Class B material. Applications include high voltage appliance insulators, bus bar supports, and barriers in switchgear. Available in thicknesses .032" - 2.00". Standard color - Red. Meets Gov't Spec - I-24768/6.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Haysite-ETR-FR-C-Glass-Reinforced-Polyester-Sheet-Electrical-Grade-GPO3.php

Physical Properties	Metric	English	Comments
Density	1.83 g/cc	0.0661 lb/in ³	ASTM D572
Water Absorption	0.20 %	0.20 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	64	64	
Tensile Strength, Ultimate	65.0 MPa	9430 psi	
Flexural Strength	145 MPa	21000 psi	
Flexural Modulus	11.0 GPa	1600 ksi	
Compressive Strength	241 MPa	35000 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	4.69	4.69	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.73	4.73	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
	18.0 kV/mm	457 kV/in	Perpendicular, Short Time in Oil and

Dielectric Strength Electrical Properties	Metric @ Thickness 1.59 mm	English @ Thickness 0.0625 in	ASTM D149 Comments
Dissipation Factor	0.011 @Frequency 1e+6 Hz	0.011 @Frequency 1e+6 Hz	ASTM D150
	0.016 @Frequency 60 Hz	0.016 @Frequency 60 Hz	ASTM D150
Arc Resistance	185 sec	185 sec	ASTM D495
Comparative Tracking Index	>= 500 V	>= 500 V	

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