

## Haysite Ultratrac® H950 Glass Reinforced Polyester Sheet, Electrical Grade (GPO3)

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

### Material Notes:

This new generation of high performance material meets or exceeds all requirements for NEMA GPO-2 or GPO-3. ULTRATRAC® H950 is recognized by U.L. as a 94V-0 material and offers greater arc and track protection with no increase in cost. Testing at an independent laboratory shows H950 to be non-toxic as defined by MIL M-14H. Excellent flame resistance and low smoke generation is also characteristic of this material. ULTRATRAC® H950 carries a U.L. thermal recognition of 160°C electrical/150°C mechanical. This is the highest rating ever assigned to a flame retardant glass polyester laminate. Applications are typical for GPO-3 materials, but also include components for transportation applications where flame, smoke, and toxicity is of great concern.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Haysite-Ultratrac-H950-Glass-Reinforced-Polyester-Sheet-Electrical-Grade-GPO3.php](http://www.lookpolymers.com/polymer_Haysite-Ultratrac-H950-Glass-Reinforced-Polyester-Sheet-Electrical-Grade-GPO3.php)

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in <sup>3</sup>	ASTM D572
Water Absorption	0.20 %	0.20 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	62	62	
Tensile Strength, Ultimate	76.0 MPa	11000 psi	
Flexural Strength	172 MPa	24900 psi	
Flexural Modulus	10.0 GPa	1450 ksi	
Compressive Strength	207 MPa	30000 psi	
Shear Strength	97.0 MPa	14100 psi	ASTM D732
Izod Impact, Notched	5.10 J/cm	9.55 ft-lb/in	edgewise; ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	160 °C	320 °F	Approximate temperature class
UL RTI, Electrical	160 °C	320 °F	
UL RTI, Mechanical with Impact	150 °C	302 °F	
UL RTI, Mechanical without Impact	150 °C	302 °F	
Flammability, UL94	V-0	V-0	File No.E81893

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.2 @Frequency 60 Hz	5.2 @Frequency 60 Hz	ASTM D150
Dielectric Strength	21.0 kV/mm @Thickness 1.59 mm	533 kV/in @Thickness 0.0625 in	Perpendicular, Short Time in Oil and Air; ASTM D149
Dissipation Factor	0.060 @Frequency 60 Hz	0.060 @Frequency 60 Hz	ASTM D150
Arc Resistance	194 sec	194 sec	ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	

## Contact Songhan Plastic Technology Co.,Ltd.

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