

## Haysite H755 Glass Reinforced Polyester Sheet, Electrical Grade (GPO1)

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

### Material Notes:

A new generation of IEEE Class F, 155°C / 165°C NEMA GPO- 1 material. H755 is designed to bridge the gap between 130°C Class B GPO-1 materials and Class H 180°C grades. H755 has quickly gained recognition in the industry as a high performance material at a similar cost as standard GPO-1. H755 has been successfully sealed tube tested for compatibility in a number of high voltage 220°C U.L. recognized insulation systems (UL File #E83907 Systems HRP- HV1 and HRP- HV2). There are numerous applications in transformers and motors where a Class F material is required or performance upgrade without cost penalty is desirable. Standard color - Ivory. Meets Gov't Specs - LP-509, I-24768/6.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Haysite-H755-Glass-Reinforced-Polyester-Sheet-Electrical-Grade-GPO1.php](http://www.lookpolymers.com/polymer_Haysite-H755-Glass-Reinforced-Polyester-Sheet-Electrical-Grade-GPO1.php)

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in <sup>3</sup>	ASTM D572
Water Absorption	0.35 %	0.35 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	48	48	
Tensile Strength, Ultimate	76.0 MPa	11000 psi	
Flexural Strength	172 MPa	24900 psi	
Flexural Modulus	11.0 GPa	1600 ksi	
Compressive Strength	276 MPa	40000 psi	
Shear Strength	103 MPa	14900 psi	ASTM D732
Izod Impact, Notched	4.50 J/cm	8.43 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	4.8	4.8	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	Perpendicular, Short Time in Oil; ASTM D149
	@Thickness 1.59 mm	@Thickness 0.0625 in	

Electrical Properties	0.020 Metric	0.020 English	Comments
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	150 sec	150 sec	ASTM D495

## Contact Songhan Plastic Technology Co.,Ltd.

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