haysite
haysite reinforced plastics

ENGINEERING DATA

GPO-1 **H755** **12/8/2009**

H755 is a glass mat reinforced thermoset polyester sheet that meets or exceeds NEMA GPO-1 properties and carries a thermal index of 155º C Electrical/165º C Mechanical. H755 is designed for use in class "F" insulation systems or elsewhere when 165º C material is required. Available thicknesses - .032" - 2.00". Standard color - Ivory. Meets Gov't Specs - LP-509, I-24768/6.

Physical	**Test Method**	**Init**	**Result**
Barcol Hardness	Barcol	Scale	48
Specific Gravity	D-792		1.80
Density, *Lbs/In*^{3}		Lbs/Cu. In.	0.065
Water Absorption, *%*	D-229	%	0.35
UL Flammability	UL94	Class	HB
Flame Resistance, *Seconds*			
Ignition Time	D-229	Seconds	103
Burning Time	D-229	Seconds	211
Temperature Class*	--	Degrees C	155
Mechanical			
Tensile Strength, *PSI*	D-638	PSI	11,000
Flexural Strength, *PSI*	D-790	PSI	25,000
Modulus of Elasticity in Flexure, *PSI*	D-790	PSI	1.6×10^6
Compressive Strength, *PSI*	D-695	PSI	40,000
Bond Strength, 1/2" Thickness, *PSI*	D-229	PSI	1,200
Shear Strength, *PSI*	D-732	PSI	15,000
Impact Strength, Izod Edgewise	D-256	Ft lbs/In. Notch	8.5
Electrical			
Dielectric Strength, ⊥, Short Time In Oil 1/16", *VPM*	D-149	VPM	500
Dielectric Strength, Parallel, Step-By-Step In Oil, *KV*	D-149	KV	60.0
Arc Resistance, *Seconds*	D-495	Seconds	150
Dielectric Constant @60HZ	D-150		4.8
Dissipation Factor @ 60 Hz	D-150		0.02

Unless otherwise indicated, all properties published are based on test performed on standard ASTM test samples and according to ASTM test methods. Values shown are for test samples made from production materials and they are believed to be conservative. No warranty is to be construed, however, in fabricated or molded form, parts may vary considerably from this standard test data. Where specific or unusual applications arise, test should be made on actual parts, and test procedures agreed upon between Haysite Reinforced Plastics and the customer.