

GPO-1

EHC

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This IEEE Class F 155° C high strength fiberglass mat reinforced thermoset polyester material exhibits substantial resistance to cold flow or creep under heat and pressure. Suggested applications include motor slot wedges, washers, brush plates and terminal boards. Available in thicknesses - .032" - 2.00". Standard color - Brown. Meets Gov't Specs - LP-509, I-24768/6.

Physical	Test Method	Unit	Result
Barcol Hardness	Barcol	Scale	74
Specific Gravity	D-792		2.00
Density, <i>Lbs/In³</i>		Lbs/Cu. In.	0.072
Water Absorption, %	D-229	%	0.31
UL Flammability	UL94	Class	HB
Flame Resistance, <i>Seconds</i>			
Ignition Time	D-229	Seconds	83
Burning Time	D-229	Seconds	221
Temperature Class*	--	Degrees C	155
Mechanical			
Tensile Strength, <i>PSI</i>	D-638	PSI	13,000
Flexural Strength, <i>PSI</i>	D-790	PSI	27,000
Modulus of Elasticity in Flexure, <i>PSI</i>	D-790	PSI	1.71 x 10 ⁶
Compressive Strength, <i>PSI</i>	D-695	PSI	44,000
Bond Strength, 1/2" Thickness, <i>PSI</i>	D-229	PSI	2,000
Shear Strength, <i>PSI</i>	D-732	PSI	18,000
Impact Strength, Izod Edgewise	D-256	Ft lbs/In. Notch	11.5
Electrical			
Dielectric Strength, ⊥, Short Time In Oil 1/16", <i>VPM</i>	D-149	VPM	450
Dielectric Strength, Parallel, Step-By-Step In Oil, <i>KV</i>	D-149	KV	62.0
Arc Resistance, <i>Seconds</i>	D-495	Seconds	180
Dielectric Constant @60HZ	D-150		4.67
Dielectric Constant @1MHZ	D-150		4.30
Dissipation Factor @ 60 Hz	D-150		0.019
Dissipation Factor @ 1MHz	D-150		0.013

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.