

A NEMA GPO-2 glass mat reinforced polyester molded sheet. ETS-FR-II is UL recognized with a flame rating of 94V-0 and arc resistance of 185 seconds. This grade is an IEEE Thermal Class B, 130°C electrical/160°C mechanical material.

Typical uses are general purpose electrical insulation application where flame retardancy is required. Available thicknesses - .032" - 2.00". Standard color - Red. Meets Gov't Specs - LP-509, I-24768/6.

Physical	Test Method	Unit	Result
Barcol Hardness	Barcol	Scale	46
Specific Gravity	D-792		1.84
Density, <i>Lbs/in<sup>3</sup></i>		Lbs/Cu. In.	0.065
Water Absorption, %	D-229	%	0.20
UL Flammability, File# E81893	UL94	Class	94V-O
Flame Resistance, <i>Seconds</i>			
Ignition Time	D-229	Seconds	93
Burning Time	D-229	Seconds	27
Temperature Class*	--	Degrees C	130
<b>Mechanical</b>			
Tensile Strength, <i>PSI</i>	D-638	PSI	10,000
Flexural Strength, <i>PSI</i>	D-790	PSI	21,000
Modulus of Elasticity in Flexure, <i>PSI</i>	D-790	PSI	1.00 x 10 <sup>6</sup>
Compressive Strength, <i>PSI</i>	D-695	PSI	30,000
Bond Strength, 1/2" Thickness, <i>PSI</i>	D-229	PSI	1500
Shear Strength, <i>PSI</i>	D-732	PSI	14,000
Impact Strength, Izod Edgewise	D-256	Ft lbs/in. Notch	8.0
<b>Electrical</b>			
Dielectric Strength, ⊥, Short Time In Oil 1/16", <i>VPM</i>	D-149	VPM	550
Dielectric Strength, Parallel, Step-By-Step In Oil, <i>KV</i>	D-149	KV	60.0
Arc Resistance, <i>Seconds</i>	D-495	Seconds	180
Comparative Track Index	CTI	Seconds	500+
Dielectric Constant @60HZ	D-150		4.40
Dissipation Factor @ 60 Hz	D-150		0.019

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.