

GPO-1

EMD

12/8/2009

EMD is a glass mat reinforced polyester sheet designed primarily as a "slot wedge" material in large motors and generators. EMD has low weight loss at elevated temperatures and high flexural and shear strength; properties required in demanding "slot wedge" applications. Available thicknesses - .062" - 1.00". Standard color - Black.

Physical	Test Method	Unit	Result
Barcol Hardness	Barcol	Scale	67
Specific Gravity	D-792		1.94
Density, <i>Lbs/In³</i>		Lbs/Cu. In.	0.070
Water Absorption, %	D-229	%	0.19
UL Flammability	UL94	Class	HB
Flame Resistance, <i>Seconds</i>			
Ignition Time	D-229	Seconds	75
Burning Time	D-229	Seconds	287
Radiant Panel	E-162	Flame Spread	--
Temperature Class*	--	Degrees C	180
Mechanical			
Tensile Strength, <i>PSI</i>	D-638	PSI	16,500
Flexural Strength, <i>PSI</i>	D-790	PSI	33,000
Modulus of Elasticity in Flexure, <i>PSI</i>	D-790	X10 ⁶ PSI	1.80
Compressive Strength, <i>PSI</i>	D-695	PSI	52,000
Shear Strength, <i>PSI</i>	D-732	PSI	17,900
Impact Strength, Izod Edgewise	D-256	Ft lbs/In. Notch	11.0
Electrical			
Dielectric Strength, \perp , Short Time In Oil 1/16", <i>VPM</i>	D-149	VPM	425
Dielectric Strength, Parallel, Step-By-Step In Oil, <i>KV</i>	D-149	KV	60.0
Arc Resistance, <i>Seconds</i>	D-495	Seconds	150
Dielectric Constant @60HZ	D-150		4.80
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.