

Haysite Plastics ETS-FR-II

Thermoset Polyester

Haysite Reinforced Plastics

Message:

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.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Flame Retardant		
Uses	Electrical/Electronic Applications		
	Insulation		
Agency Ratings	EC 1907/2006 (REACH)		
	FED L-P-509		
	NEMA GPO-2		
RoHS Compliance	RoHS Compliant		
UL File Number	E81893		
Appearance	Red		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.84	g/cm ³	ASTM D792
Water Absorption (Equilibrium)	0.20	%	ASTM D229
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	46		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	68.9	MPa	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Compressive Strength	207	MPa	ASTM D695
Shear Strength	96.5	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	430	J/m	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (1.59 mm, Oil)	22	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	4.40		ASTM D150
Dissipation Factor (60 Hz)	0.019		ASTM D150
Arc Resistance	180	sec	ASTM D495
Comparative Tracking Index	> 500	V	


Dielectric Strength - Step-By-Step In Oil ¹	60000	V	ASTM D149
Flame Resistance			ASTM D229
Burning Time	27.0	sec	
Ignition Time	93.0	sec	
Bond Strength (1.27 cm)	10.3	MPa	ASTM D229
Temperature Rating	130	°C	
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
NOTE			
1.	Parallel		

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