

Haysite Plastics ETR-FR-C

Thermoset Polyester
Haysite Reinforced Plastics

Message:

Haysite's high performance material that meets NEMA GPO-3 requirements and exceeds NEMA in dielectric strength, arc resistance, and track resistance. This UL recognized grade is highly flame retardant and low smoke generating. ETR-FR-C is a IEEE 130° C electrical / 160° mechanical Class B material. Applications include high voltage appliance insulators, bus bar supports, and barriers in switchgear. Available in thicknesses .032" - 2.00". Standard color - Red. Meets Gov't Spec - I-24768/6.

General Information			
Features	Flame Retardant		
	Low Smoke Emission		
Uses	Electrical/Electronic Applications		
	High Voltage Insulation		
Agency Ratings	EC 1907/2006 (REACH)		
	NEMA GPO-3		
RoHS Compliance	RoHS Compliant		
UL File Number	E81893		
Appearance	Red		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.83	g/cm ³	ASTM D792
Water Absorption (Equilibrium)	0.20	%	ASTM D229
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	64		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	64.8	MPa	ASTM D638
Flexural Modulus	11000	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Compressive Strength	241	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)	18	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	4.73		
1 MHz	4.69		

Dissipation Factor			ASTM D150
60 Hz	0.016		
1 MHz	0.011		
Arc Resistance	185	sec	ASTM D495
Comparative Tracking Index	> 500	V	
Inclined-Plane Tracking	500	min	ASTM D2303
Dielectric Strength - Step-By-Step In Oil ¹	55000	V	ASTM D149
Flame Resistance			ASTM D229
Burning Time	20.0	sec	
Ignition Time	100.0	sec	
Radiant Panel Listing (UL) - Flame Spread	1.30		ASTM E162
Smoke Density - at 4.0 minutes, flaming	40		ASTM E662
Bond Strength (1.27 cm)	9.65	MPa	ASTM D229
Temperature Rating	130	°C	
Tunnel Test - Flame Spread (6.35 mm)	< 25.0		ASTM E84
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
NOTE			

1. Parallel

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT