

Haysite Plastics HST-II

Thermoset Polyester

Haysite Reinforced Plastics

Message:

UL, Inc. has granted HST-II the highest thermal recognition ever achieved by any glass polyester laminate (U.L. File No. E81893). HST-II has a 220° C/210° C rating for 1/8" thick and heavier, and a 210° C/210° C rating for 1/32" thick up to 1/8" thick. HST-II is a high temperature polyester laminate that exhibits excellent retention of electrical and mechanical properties at elevated temperatures. Applications for HST-II can be found in high voltage transformers, D.C. motors and elsewhere when materials with high thermal indices are required. Available thicknesses - .031" - 2.00". Standard color - Brown.

General Information			
Features	High Heat Resistance		
Agency Ratings	EC 1907/2006 (REACH)		
	NEMA GPO-1		
RoHS Compliance	RoHS Compliant		
UL File Number	E81893		
Appearance	Brown		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.62	g/cm ³	ASTM D792
Water Absorption (Equilibrium)	0.030	%	ASTM D229
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	52		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	89.6	MPa	ASTM D638
Flexural Modulus	11700	MPa	ASTM D790
Flexural Strength	172	MPa	ASTM D790
Compressive Strength	228	MPa	ASTM D695
Shear Strength	96.5	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	540	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	2.9E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (1.59 mm, Oil)	16	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	4.20		ASTM D150
Dissipation Factor (60 Hz)	0.010		ASTM D150
Arc Resistance	150	sec	ASTM D495
Dielectric Strength - Step-By-Step In Oil ¹	62000	V	ASTM D149
Flame Resistance			ASTM D229
Burning Time	4.3	min	

Ignition Time	1.3	min	
Bond Strength (1.27 cm)	9.65	MPa	ASTM D229
Temperature Rating	220	°C	
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
NOTE			
1.	Parallel		

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Recommended distributors for this material


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