

Haysite HTF Polyester, High Temp Flex

Category : Polymer , Thermoset , Polyester, TS , Thermoset Polyester Glass SMC

Material Notes:

HTF exhibits excellent flexibility and retention of electrical properties at elevated temperatures. For use in 220Â° C insulation systems in dry type transformers and where flexibility and high temperature is required. Standard color is tan. Thickness is 1/32" - 1/16". Sheet sizes are 36" x 72" and 48" x 96". Information provided by Haysite

Order this product through the following link:

http://www.lookpolymers.com/polymer_Haysite-HTF-Polyester-High-Temp-Flex.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 g/cc	1.60 g/cc	ASTM D792
Water Absorption	1.1 %	1.1 %	ASTM D229

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	16	16	
Tensile Strength	42.7 MPa	6200 psi	LW; ASTM D638
	46.2 MPa	6700 psi	CW; ASTM D638
Tensile Strength, Ultimate	52.0 MPa	7540 psi	
Flexural Strength	83.0 MPa	12000 psi	
Flexural Modulus	3.70 GPa	537 ksi	
Compressive Strength	74.5 MPa	10800 psi	Flatwise; ASTM D695
Izod Impact, Notched	4.81 J/cm	9.00 ft-lb/in	Edgewise (CW); ASTM D256
	5.34 J/cm	10.0 ft-lb/in	Edgewise (LW); ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	200 Â°C	392 Â°F	Approximate temperature class
	200 Â°C	392 Â°F	Elec.
	200 Â°C	392 Â°F	Mech.
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.2	5.2	ASTM D150

Electrical Properties	@Frequency 60.0 Hz Metric	@Frequency 60.0 Hz English	Comments
Dielectric Strength	22.0 kV/mm	560 kV/in	Perpendicular in Air; ASTM D149
	23.6 kV/mm	600 kV/in	Perpendicular in Oil; ASTM D149
Dielectric Breakdown	55000 V	55000 V	Parallel, Step-By-Step in Oil; ASTM D149
Dissipation Factor	0.057	0.057	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Arc Resistance	135 sec	135 sec	ASTM D495

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