

Haysite H900 Polyester, Glass Reinforced

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

Material Notes:

H900 is recognized throughout the world as a reliable, consistent GPO-3 material. Standard size sheets are available in thicknesses ranging from .094" to 2.00". H900 also exhibits excellent smoke, flame and toxicity characteristics. Govt. Spec I-24768/6. Standard color - red. Information provided by Haysite

Order this product through the following link:

http://www.lookpolymers.com/polymer_Haysite-H900-Polyester-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 g/cc	1.80 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D229

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	62	62	
Tensile Strength	62.1 MPa	9000 psi	ASTM D638
Flexural Strength	124 MPa	18000 psi	ASTM D790
Flexural Modulus	10.3 GPa	1500 ksi	ASTM D790
Compressive Strength	207 MPa	30000 psi	ASTM D695
Shear Strength	96.5 MPa	14000 psi	ASTM D732
Adhesive Bond Strength	9.65 MPa @Thickness 12.7 mm	1400 psi @Thickness 0.500 in	ASTM D229
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	Edgewise; ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Inert	160 Â°C	320 Â°F	
Flammability, UL94	V-0	V-0	
Smoke Density	4.0 min	4.0 min	0.33 Optical Density; ASTM E661

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.2 @Frequency 60.0 Hz	5.2 @Frequency 60.0 Hz	ASTM D150
	17.7 kV/mm	450 kV/in	Perpendicular, short time in oil; ASTM

Dielectric Strength Electrical Properties	Metric	English	D149 Comments
Dielectric Breakdown	55000 V	55000 V	Parallel, Step-By-Step in Oil; ASTM D149
Dissipation Factor	0.060 @Frequency 60.0 Hz	0.060 @Frequency 60.0 Hz	ASTM D150
Arc Resistance	190 sec	190 sec	ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	

Descriptive Properties	Value	Comments
Flame Resistance	130 seconds	Ignition Time, ASTM D229
	33 seconds	Burning Time, ASTM D229
Inline Plane Track Resistance	1000 mins	ASTM D2303
Radiant Panel	5	ASTM E162
Tunnel Test	<25	1/4", ASTM E84

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