

Haysite Plastics H1000

Thermoset Polyester

Haysite Reinforced Plastics

Message:

Haysite Grade 1000 laminate sheet is an outstanding material that is used in applications requiring exceptional weather and corrosion resistance. Grade H1000's unique polyester resin system provides corrosion resistance in sunlight and harsh weather environments in addition to meeting NEMA GPO-3 specifications for track resistance, flame retardance, heat resistance and physical properties. H1000 is particularly qualified for applications in the transportation industry due to its' low smoke generation, low smoke toxicity & halogen-free flame retardants. H1000 meets the rigid New York City Transit - Specification #64. Transit Authorities use Grade H1000 under their 3rd rail ties to provide electrical insulation, corrosion protection, UV resistance & most importantly to insure low smoke/flame toxicity in case of electrical failure. H1000, in a pultruded profile shape is used for electrical insulation for electrical cables, conduit & 3rd rail protection for workers.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Corrosion Resistance		
	Good UV Resistance		
	Good Weather Resistance		
	Halogen Free		
	Low Smoke Emission		
	Low Toxicity		
Uses	Insulation		
Agency Ratings	EC 1907/2006 (REACH)		
	NEMA GPO-3		
RoHS Compliance	RoHS Compliant		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Water Absorption (Equilibrium)	0.16	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	11400	MPa	ASTM D638
Tensile Strength			ASTM D638
-- ²	89.6	MPa	
-- ³	93.1	MPa	
Flexural Modulus			ASTM D790
-- ⁴	9170	MPa	
-- ⁵	13000	MPa	
Flexural Strength			ASTM D790
-- ⁶	155	MPa	
-- ⁷	178	MPa	
Compressive Strength	207	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-- 8	560	J/m	
-- 9	640	J/m	
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	1.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹⁰	11	kV/mm	ASTM D149
Arc Resistance	193	sec	ASTM D495
Inclined-Plane Tracking	> 660	min	ASTM D2303
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Flame Resistance			ASTM D229
Burning Time	35.0	sec	
Ignition Time	80.0	sec	
Flame Spread Index	20.0		ASTM E84
Radiant Panel Listing (UL) - Flame Spread	15.9		ASTM E162
Smoke Density - at 4.0 minutes, flaming	6.3		ASTM E662
Smoke Developed Index	165		ASTM E84
NOTE			
1.	Crosswise		
2.	Crosswise		
3.	Lengthwise		
4.	Crosswise		
5.	Lengthwise		
6.	Crosswise		
7.	Lengthwise		
8.	Crosswise		
9.	Lengthwise		
10.	Perpendicular		

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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



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