Glastic® 1130

Thermoset Polyester

Glastic Corporation

Message:

Glastic 1130 is a fiberglass-reinforcement thermoset polyester composite system which is available as sheet stock or in a variety of pultruded shapes. Glastic 1130 is formulated from a special methyl methacrylate modified neopentyl glycol-isophthalic acid unsaturated polyester resin. This type of resin has long been known for outstanding resistance to color fading caused by sunlight, and for resistance to surface erosion caused by weathering. This resin is also recognized for its performance in corrosive enviornments, including acids, bases and aliphatic hydrocarbons. It also meets the National Electrical manufacturers Association criteria for grade GPO-3.
Glastic 1130 was developed to meet the challenging requirements of the NYCTA (New York City Transit Authority). It has been pultruded into channel shaped covers for the electrified third rail; and molded in flat panels for both a sign material and for switchgear components. Approved against NYCTA specifications 62, 64, and 65.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good corrosion resistance Good color stability alkali resistance Good weather resistance acid resistance Hydrocarbon resistance Flame retardancy		
Uses	Protective cover Cable sheath Components Connector Sheet		
UL File Number	R9599		
Appearance	Grey		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	10300	MPa	ASTM D638
Tensile Strength (Yield)	101	MPa	ASTM D638
Flexural Modulus	9720	MPa	ASTM D790
Flexural Strength (Yield)	141	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	600	J/m	ASTM D256
Electrical	**Nominal Value**	**Unit**	**Test Method**

Dielectric Strength [1] (in Air)	3.0	kV/mm	ASTM D149
Arc Resistance	192	sec	ASTM D495

Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

Additional Information
Tensile Strength, ASTM D638, Flow: 14600 psiTensile Strength, ASTM D638, Across Flow: 16000 psiTensile Modulus, ASTM D638, Flow: 1.49e6Tensile Modulus, ASTM D638, Across Flow: 1.49e6Flexural Strength at Yield, ASTM D790, Flow: 20400 psiFlexural Strength at Yield, ASTM D790, Across Flow: 23300 psiFlexural Modulus, ASTM D790, Flow: 1.41e6 psiFlexural Modulus, ASTM D790, Across Flow: 1.39e6 psiBonding Strength, NEMA 11.11: 6100 lbsDielectric Strength, ASTM D149, Flow, Condition A: 75 V/milDielectric Strength, ASTM D149, Flow, Condition D (48/50): 79 V/milDielectric Strength, ASTM D149, in Air, Across Flow, Method A (Short Time): 316 V/milInclined Plane Track Resistance, ASTM D2303: 870 minUL Standard 723 Flame Spread, ASTM E84: 20UL Standard 723 Fuel Contributed, ASTM E84: 0Radiant Panel Flame Spread, ASTM E162: 12

NOTE	
1.	Method A (short time)

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