

Premi-Glas® 1200H-10

Thermoset, Unspecified

Premix, Inc.

Message:

Premi-Glas® 1200H-10 is a fiberglass reinforced thermoset sheet molding compound for general purpose applications requiring thermal stability and stiffness.

Key Features and Benefits:

Good dimensional stability, including excellent thermal resistance.

Pigmentable for molded-in color; best appearance with mold texture.

Excellent property retention in cold and hot environments.

Suitable for outdoor use in applications involving UV exposure and water immersion in accordance with UL746C (f1), see File E42524

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Good Corrosion Resistance		
	Good Dimensional Stability		
	Good Thermal Stability		
	High Stiffness		
Uses	General Purpose		
	Outdoor Applications		
UL File Number	E42524		
Forms	SMC - Sheet Molding Compound		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70 to 1.85	g/cm ³	
Molding Shrinkage - Flow	0.20 to 0.35	%	
Outdoor Suitability	f1		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ASTM D638
Tensile Strength (Compression Molded)	20.7	MPa	ASTM D638
Flexural Modulus (Compression Molded)	9650	MPa	ASTM D790
Flexural Strength (Compression Molded)	68.9	MPa	ASTM D790
Compressive Strength ¹	121	MPa	ASTM D695
Poisson's Ratio	0.30		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	310	J/m	ASTM D256
Unnotched Izod Impact (Compression Molded)	360	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
CLTE			
Flow	2.5E-5	cm/cm/°C	

Transverse	3.5E-5	cm/cm/°C	
Thermal Conductivity	0.30	W/m/K	
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI Str	130	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	15	kV/mm	ASTM D149
Arc Resistance	180	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.52 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Mold Temperature	149	°C	
Injection Pressure	3.45 to 6.89	MPa	
NOTE			
1.	Compression Molded		

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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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