Premi-Glas® 1286

Thermoset, Unspecified

A. Schulman Inc.

Message:

Premi-Glas® 1286 is a fiberglass reinforced thermoset sheet molding compound employing hybrid vinyl ester/polyester resin technology for automotive powertrain and other structural or semi-structural applications.
Key Features and Benefits:
Excellent thermal properties and elevated temperature modulus retention.
Replaces cast metals for reduced Noise, Vibration, and Harshness.
Excellent resistance to automotive chemicals and salt spray.
Meets the requirements of GMP.UP.018 and other specs.
Designed for compression molding of large-span valve covers.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	High strength Shock absorption Noise reduction Anti-salt water/fog Good chemical resistance		
Uses	Components Sheet Parts under the hood of a car		
Forms	SMC-Sheet Molding Compound		
Processing Method	Compression molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.81	g/cm³	
Molding Shrinkage	0.010	%	
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-2
23°C, molded	14000	MPa	ISO 527-2
150°C, molded	9300	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield, 23°C, molded	80.0	MPa	ISO 527-2
Yield, 150°C, compression molding	64.0	MPa	ISO 527-2
Flexural Modulus			ISO 178
23°C, molded	13000	MPa	ISO 178
150°C, molded	8000	MPa	ISO 178
Flexural Stress			ISO 178

23°C, molded	200	MPa	ISO 178
150°C, molded	108	MPa	ISO 178
Poisson's Ratio	0.30		

Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (Compression Molded)	1400	J/m	ASTM D4812
Multi-Axial Instrumented Impact Energy			ISO 6603-2
Compression molding, energy to power peak	7.80	J	ISO 6603-2
Molding, impact total penetration energy	18.8	J	ISO 6603-2
High Speed Impact			ISO 6603-2
Deflection at Peak Load	4.90	mm	ISO 6603-2
Impact at Peak Load	3300	N	ISO 6603-2

Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	210	°C	ISO 6721
Linear thermal expansion coefficient			
Flow	2.0E-5	cm/cm/°C	
Lateral	3.5E-5	cm/cm/°C	
Thermal Conductivity	0.45	W/m/K	

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