Technical Data Sheet **Premi-Glas** 1266

Engineered Composites



Product Description			
Glass Fiber reinforced Vinyl Ester TMC	c suitable for composite powertrain applica	ations such as valve covers and timi	ng gear covers.
General			
Material Status	Commercial: Active		
Availability	North America		
Filler / Reinforcement	Glass Fiber and Mineral Filler		
Features	Excellent resistance to automotive Chemicals and salt spray	Replaces cast metals for reduced Noise, Vibration and Harshness	Excellent thermal properties and elevated temperature modulus retention
Processing Method	 This TMC product is generally intended to be compression molded in matched metal molds, typically at 300°F (150°C) and 500 to 1,000 psi (35-65 BAR) molding pressure. Strength values may be affected by the molding process. 		
Resin	Unsaturated vinyl ester		
Physical	Typical	Unit	Test Method
Density	1.80	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0004	in/in	ASTM D955
CLTE, X – Y plane	25	ppm/°C	ASTM E831
CLTE, Z plane	35	ppm/°C	ASTM E831
Poisson's Ratio	0.27		ASTM D638
Mechanical (Injection Molded)	Typical	Unit	Test Method
Tensile Strength	6,000 (40)	psi (MPa)	ISO 527
Tensile Modulus	1.7 E+6 (12)	psi (GPa)	ISO 527
Flexural Modulus (RT)	1.5 E+6 (10)	psi (GPa)	ISO 178
Flexural Strength	11,500 (80)	psi (Mpa)	ISO 178
Impact	Typical	Unit	Test Method
Jnnotched Impact Strength	10	ft-lb/in (J/m)	ISO 180
Thermal	Typical	Unit	Test Method
Heat Deflection Temperature 264 psi	>520 (>270)	°F (°C)	ISO 75
Glass Transition Tg	400 (204)	°F (°C)	ASTM D4065
Thermal Conductivity, 25°C	0.4	W/m-°K	ATSM E1461

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Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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