Technical Data Sheet **Premi-Glas** 1286

Engineered Composites



Product Description			
	ster hybrid SMC suitable for automotive	powertrain and other structural or semi-st	tructural applications.
General			
Material Status	Commercial: Active		
Availability	North America	South America	
Filler / Reinforcement	Glass Fiber and Mineral Filler		
Features	Excellent thermal properties	 Excellent resistance to automotive chemicals and salt 	
Processing Method		ded to be compression molded in matched 5 BAR) molding pressure. Strength values	
Resin	Unsaturated Polyester/Vinylester		
Physical	Typical	Unit	Test Method
Density	1.82	g/cm ³	ASTM D792
Nold Shrinkage (RT mold/RT part)	0.001	in/in	ASTM D955
Vater Absorption, 24 hrs., 24°C	0.1%	%	ISO 62
CLTE, X – Y plane	20	ppm/°C	ASTM E831
CLTE, Z plane	35	ppm/°C	ASTM E831
Poisson's Ratio	0.3		ASTM D638
flechanical (As Cut)	Typical	Unit	Test Method
ensile Modulus (RT)	2.0 E+6 (14)	psi (GPa)	ISO 527
ensile Strength (RT)	12,000 (80)	psi (MPa)	ISO 527
ensile Modulus (150°C)	1.35 E+6 (9.3)	psi (GPa)	ISO 527
ensile Strength (150°C)	9,300 (64)	psi (MPa)	ISO 527
Flexural Modulus (RT)	1.9 E+6 (13)	psi (GPa)	ISO 178
Flexural Strength (RT)	29,000 (200)	psi (MPa)	ISO 178
Flexural Modulus (150°C)	1.2 E+6 (8)	psi (GPa)	ISO 178
Flexural Strength (150°C)	16,000 (108)	psi (MPa)	ISO 178
High Speed Impact, deflection at max pad	0.19 (4.9)	in(mm)	ISO 6603-2
High Speed Impact, impact at max poad	740 (3.3)	lbs. (KN)	ISO 6603-2
ligh Speed Impact, energy at max bad	5.8 (7.8)	ft*lb. (Joules)	ISO 6603-2
ligh Speed Impact, total energy	13.9 (18.8)	ft*lb. (Joules)	ISO 6603-2
mpact	Typical	Unit	Test Method
Innotched Impact Strength	25 (1350)	ft-lb/in (J/m)	ASTM D4812
Thermal Glass Transition Tg	Typical 410 (210)	Unit °F (°C)	Test Method ISO 6721 DMS

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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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