Technical Data Sheet **Premi-Glas** 2143-24 CR-SX-HT

Engineered Composites

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Product Description			
Glass Fiber reinforced Polyester TMC	suitable for electrical and flame retarda	nt applications.	
General			
Material Status	Commercial: Active		
Availability	North America		
Filler / Reinforcement	 Glass Fiber and Mineral Filler 		
Features	Excellent thermal resistanceUL 94-V0 @ 2.5 mm	Non-Halogen FR technologyUL Recognized – File E69414	Excellent property retention in hot environments
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 Polyester		
Physical	Typical	Unit	Test Method
Density	1.70 – 1.80	g/cm ³	ASTM D792
/lold Shrinkage (RT mold/RT part)	0.0015 - 0.0020	in/in	ASTM D955
CLTE, X – Y plane	25	ppm/°C	ASTM E831
CLTE, Z plane	35	ppm/°C	ASTM E831
Poisson's Ratio	0.30		ASTM D638
/lechanical (As molded)	Typical	Unit	Test Method
Fensile Modulus	2.1 E+6 (15)	psi (GPa)	ASTM D638
Fensile Strength	12,000 (82)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.5 E+6 (10)	psi (GPa)	ASTM D790
Flexural Strength	20,500 (140	psi (Mpa)	ASTM D790
mpact	Typical	Unit	Test Method
zod Notched Impact Strength	20 (1100)	ft-lb/in (J/m)	ASTM D256
Jnnotched Impact Strength	27(1400)	ft-lb/in (J/m)	ASTM D4812
Thermal	Typical	Unit	Test Method
Thermal Conductivity, 25°C	0.30	W/m-°K	ASTM E1461
JL RTI, Electrical	311 (155)	°F (°C)	UL 746C
JL RTI, Mechanical with Impact	320 (160)	°F (°C)	UL 746C
JL RTI, Mechanical without Impact	320 (160)	°F (°C)	UL 746C
Flammability	Typical	Unit	Test Method
Flammability	Pass 0.10 (205)	in (mm)	UL94 V0
Electrical	Typical	Unit	Test Method
Dielectric Strength	380 (15)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	180+	seconds	ASTM D495
Comparative Tracking Index	600	volts	ASTM D2303

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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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