

Product Description

E-glass reinforced hybrid polyester molding compound

General

Material Status	• Commercial: Active		
Availability	• North America	• Europe	• Asia Pacific
Filler / Reinforcement	• E-glass Fiber	• Nominal 43% w/w	• Nominal 1" (25 mm) Length
Features	• Fatigue Resistance • High Strength	• High Stiffness • Colors	• Shelf Life 2 months @ 75°F
Processing Method	<ul style="list-style-type: none"> • QC 8650 can be molded at temperatures in the range of 260-310°F, with 280°F suggested as a starting point. Cure times will be dependent on molding temperature and part thickness and will typically be 3-5 minutes. Detailed molding suggestions are available on request. Cool molded parts at ambient temperature. A cooling fixture may be needed depending on part thickness and geometry. Matched metal molds. 		
Resin	• PE Hybrid		

Physical	Typical	Unit	Test Method
Density	1.65	g/cm ³	ASTM D792
Shrinkage	<0.001	in/in	ASTM D955
CLTE, X – Y plane		ppm/°C	ASTM E831
CLTE, Z plane		ppm/°C	ASTM E831
Poisson's Ratio	0.30		ASTM D638
Mechanical (As Molded)	Typical	Unit	Test Method
Tensile Modulus	2.5 E+6 (17,237)	psi (MPa)	ASTM D638
Tensile Strength	34,000 (234)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	2.1 E+6 (14,479)	psi (MPa)	ASTM D790
Flexural Strength	55,000 (379)	psi (MPa)	ASTM D790
Impact	Typical	Unit	Test Method
Izod Notched Impact Strength	27 (1442)	ft-lb/in (J/m)	ASTM D256
Thermal	Typical	Unit	Test Method
Glass Transition T _t , TanDelta	118	°C	ASTM D7028
Glass Transition T _g , Storage Modulus	100	°C	ASTM D7028

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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