Technical Data Sheet

Quantum QC 2550

Engineered Composites

Product Description			
E-glass reinforced phenolic molding compound			
General			
Material Status	• Commercial: Active		
Availability	• North America	• Europe	• Asia Pacific
Filler / Reinforcement	• E-glass Fiber	• Nominal 50% w/w	• Nominal 1” (25 mm) Length
Features	• Low FST Properties	• High Stiffness • Black or Natural Color	• Shelf Life 6 months @ 10°F or below
Processing Method	• **QC 2550** can be molded at temperatures in the range of 250-310°F, with 280°F suggested as a starting point. Cure times will be dependent on molding temperature and part thickness and will typically be 8-10 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. A breath cycle is recommended during molding process to allow for moisture generated during cure reaction to escape.		
Resin	• Phenolic		

Physical	Typical	Unit	Test Method
Density	1.80	g/cm^3	ASTM D792
Shrinkage	<0.0015	in/in	ASTM D955
CLTE, X – Y plane		ppm/°C	ASTM E831
CLTE, Z plane		ppm/°C	ASTM E831
Poisson’s Ratio	0.33		ASTM D638
Mechanical (As Molded)	**Typical**	**Unit**	**Test Method**
Tensile Modulus	3.0 E+6 (20,700)	psi (MPa)	ASTM D3039
Tensile Strength	34,000 (234)	psi (MPa)	ASTM D3039
Flexural Modulus	2.8 E+6 (19,300)	psi (MPa)	ASTM D790
Flexural Strength	56,500 (389)	psi (MPa)	ASTM D790
Impact	**Typical**	**Unit**	**Test Method**
Izod Notched Impact Strength	18 (960)	ft-lb/in (J/m)	ASTM D256
Thermal	**Typical**	**Unit**	**Test Method**
Glass Transition T_t, TanDelta	200	°C	ASTM D7028

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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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