

Product Description

This class is a thermosetting compound designed for structural application with an excellent dimensional and good surface finish. This product is recommended for applications in which high mechanical performance is desired.

General

Material Status	• Commercial: Active		
Availability	• North America • Asia Pacific	• Europe • South America	
Filler / Reinforcement	• Glass Fiber and Mineral Filler		
Features	• Good Dimensional Stability	• High Mechanical properties	
Processing Method	• This SMC product is generally intended to be a compression molded in matched metal die molds, typically at 320°F (160°C), but the temperature process depend of the formula, tool design and machine. Strength values may be affected by the molding process.		
Resin	• Unsaturated Polyester		

Physical	Typical	Unit	Test Method
Density	1.70-2.00	g/cm ³	ASTM D792
Mold Shrinkage	-0.050-0.300	%	ASTM D955
Water Absorption, 24 hrs. 23°C	Max. 0.8	%	ASTM D570
Mechanical	Typical	Unit	Test Method
Tensile Modulus	Min.13	GPa	ASTM D638
Tensile Strength	Min.90	MPa	ASTM D638
Flexural Modulus	Min. 11.0	GPa	ASTM D790
Flexural Strength	Min.180	MPa	ASTM D790
Impact	Typical	Unit	Test Method
Izod Notched Impact Strength	Min.1200	J/m	ASTM D256
Thermal	Typical	Unit	Test Method
Heat Deflection Temperature	> 250	°C	ASTM D648

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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