

## Premix Premi-Glas® 1201-15 Polyester SMC

Category : Polymer , Thermoset , Composite SMC , Polyester, TS , Thermoset Polyester Glass SMC

### Material Notes:

Premi-Glas® 1201-15 is a 15% glass reinforced thermoset Sheet Molding Compound designed for sinks, shower stall bases and wall applications. Key features and benefits are: Supports ANSI 124.2 and CSA B45.5 requirements for flame, smoke and stain resistance. Available in glass contents ranging from 10% - 20%; standard product has 15% reinforcement. High gloss, non-rippling surface appearance on large flat surfaces and deep draw side walls. Excellent as-molded dimensional tolerances. Outstanding moldability and flow in compression process. Standard color is white. Passes ANSI 124.2/ CSA B,45.5 stain resistance. Data provided by Premix.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Premix-Premi-Glas-1201-15-Polyester-SMC.php](http://www.lookpolymers.com/polymer_Premix-Premi-Glas-1201-15-Polyester-SMC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.76 g/cc	1.76 g/cc	
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	35.0 MPa	5080 psi	ASTM D638
Tensile Modulus	9.00 GPa	1310 ksi	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	9.00 GPa	1310 ksi	ASTM D790
Poissons Ratio	0.30	0.30	
Shear Modulus	3.50 GPa	508 ksi	Calculated
Izod Impact, Notched	3.70 J/cm	6.93 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.25 J/cm	7.96 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 µm/m-°C	19.4 µin/in-°F	Z Direction
CTE, linear, Transverse to Flow	25.0 µm/m-°C	13.9 µin/in-°F	XY Direction
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft²-°F	

Processing Properties	Metric	English	Comments
Processing Temperature	150 °C	302 °F	Compression Molding
Clamp Pressure	3.45 - 6.89 MPa	500 - 1000 psi	Molding Pressure

Processing Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Flame Resistance		pass at 3 mm	ANSI Z124.2
Stain Resistance		pass	ANSI Z124.2

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