

Premi-Glas® 3101-25

Thermoset, Unspecified

Premix, Inc.

Message:

Premi-Glas® 3101-25 is a fiberglass reinforced thermoset bulk molding compound for electrical circuit breakers, switchgear, and other applications where fire retardance is required.

General Information	
Filler / Reinforcement	Glass Fiber
Additive	Flame Retardant
Features	Flame Retardant
	Good Dimensional Stability
	Good Electrical Properties
	Halogen Free
Uses	Electrical/Electronic Applications
	Switches
UL File Number	E42524
Forms	BMC - Bulk Molding Compound
Processing Method	Compression Molding
	Injection Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	
Specific Gravity	1.80 to 1.95	g/cm ³	
Molding Shrinkage - Flow	0.15 to 0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13400	MPa	ASTM D638
Tensile Strength	33.0	MPa	ASTM D638
Flexural Modulus	11700	MPa	ASTM D790
Flexural Strength	124	MPa	ASTM D790
Poisson's Ratio	0.30		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	530	J/m	ASTM D256
Unnotched Izod Impact	690	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 200	°C	ASTM D648
CLTE			
Flow ¹	2.5E-5	cm/cm/°C	

Transverse ²	3.5E-5	cm/cm/°C	
Thermal Conductivity	0.30	W/m/K	
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI Str	130	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	18	kV/mm	ASTM D149
Arc Resistance	210	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		
2.60 mm	5V		
Injection	Nominal Value	Unit	
Mold Temperature	150	°C	
Injection Pressure	3.50 to 6.50	MPa	
NOTE			
1.	XY Direction		
2.	Z Direction		

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