

Premi-Glas® 3101-10

Thermoset, Unspecified

Premix, Inc.

Message:

Premi-Glas® 3101-10 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	12000	MPa	ASTM D638
Tensile Strength	33.0	MPa	ASTM D638
Flexural Modulus	8300	MPa	ASTM D790
Flexural Strength	79.0	MPa	ASTM D790
Poisson's Ratio	0.30		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	190	J/m	ASTM D256
Unnotched Izod Impact	320	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	220	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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