Premi-Ject® 6100-18

Thermoset, Unspecified

Premix, Inc.

Message:

Premi-Ject® 6100-18 is a fiberglass reinforced thermoset bulk molding compound for electrical and flame retardant applications.
Good dimensional stability, including excellent thermal resistance.
Pigmentable for molded-in color; best appearance with mold texture.
Excellent property retention in cold and hot environments.
Recognized by Underwriters Laboratories, File # E42524.
Underwriters Laboratories 94-VO flame resistance at 1.5mm thickness.

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	Flame Retardant		
Features	Flame Retardant Good Colorability Good Dimensional Stability Medium Heat Resistance		
Uses	Electrical/Electronic Applications		
UL File Number	E42524		
Forms	BMC - Bulk Molding Compound		
Physical	**Nominal Value**	**Unit**	
Specific Gravity	1.70 to 1.85	g/cm³	
Molding Shrinkage - Flow	0.15 to 0.35	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Compression Molded)	12400	MPa	ASTM D638
Tensile Strength (Compression Molded)	36.5	MPa	ASTM D638
Flexural Modulus (Compression Molded)	10300	MPa	ASTM D790
Flexural Strength (Compression Molded)	103	MPa	ASTM D790
Poisson's Ratio	0.30		
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (Compression Molded)	370	J/m	ASTM D256
Unnotched Izod Impact (Compression Molded)	510	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
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	15	kV/mm	ASTM D149
Arc Resistance	> 180	sec	ASTM D495
Comparative Tracking Index	600	V	ASTM D2303
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.52 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Mold Temperature	149	°C	
Injection Pressure	3.45 to 6.89	MPa	
NOTE			
1.	XY Direction		
2.	Z Direction		

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