

Premi-Ject® 6100-20

Thermoset, Unspecified

Premix, Inc.

Message:

Premi-Ject® 6100-20 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/cm ³	
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)	37.9	MPa	ASTM D638
Flexural Modulus (Compression Molded)	10300	MPa	ASTM D790
Flexural Strength (Compression Molded)	110	MPa	ASTM D790
Poisson's Ratio	0.30		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	430	J/m	ASTM D256
Unnotched Izod Impact (Compression Molded)	530	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

