

Premix Premi-Glas® 3101-20 Polyester BMC

Category : Polymer , Thermoset , Polyester, TS , Thermoset Polyester Glass Filled BMC

Material Notes:

Premi-Glas® 3101-20 a 20% glass reinforced thermoset Bulk Molding Compound designed for electrical and flame retardant applications. Key features and benefits are: Underwriters Laboratories, UL 94-5VA flame recognition at 2.6mm minimum thickness; and UL 94V-0 recognition at 1.6 mm minimum thickness; using halogen free technology. Available in fiberglass content from 10-25%: standard product has 20% reinforcement. Excellent dimensional stability, dielectric strength, and arc and track resistance. Outstanding moldability and flow in Compression, Injection, and Transfer molding processes. UL recognized in all colors. Standard color is black. Data provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-3101-20-Polyester-BMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.80 - 1.95 g/cc	1.80 - 1.95 g/cc	
Linear Mold Shrinkage	0.0015 - 0.0030 cm/cm	0.0015 - 0.0030 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	33.0 MPa	4790 psi	ASTM D638
Tensile Modulus	13.0 GPa	1890 ksi	ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	10.3 GPa	1490 ksi	ASTM D790
Poissons Ratio	0.30	0.30	
Shear Modulus	5.00 GPa	725 ksi	Calculated
Izod Impact, Notched	4.25 J/cm	7.96 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.30 J/cm	9.93 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 $\mu\text{m/m-}^{\circ}\text{C}$	19.4 $\mu\text{in/in-}^{\circ}\text{F}$	Z Direction
CTE, linear, Transverse to Flow	25.0 $\mu\text{m/m-}^{\circ}\text{C}$	13.9 $\mu\text{in/in-}^{\circ}\text{F}$	XY Direction
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	
Deflection Temperature at 1.8 MPa (264 psi)	$\geq 200^{\circ}\text{C}$	$\geq 392^{\circ}\text{F}$	ASTM D792
UL RTI, Electrical	130 $^{\circ}\text{C}$	266 $^{\circ}\text{F}$	UL 746C
UL RTI, Mechanical with Impact	130 $^{\circ}\text{C}$	266 $^{\circ}\text{F}$	UL 746C

Thermal Properties	Metric	English	Comments
UL 94, V-0, V-0, V-0 without impact			
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	5VB	5VB	
	@Thickness 2.60 mm	@Thickness 0.102 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	18.0 kV/mm	457 kV/in	ASTM D149
Arc Resistance	210 sec	210 sec	ASTM D495

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

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