

Sumitomo Bakelite North America Epiall® 1914A Short Glass Fiber Reinforced Epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy, Molded, Glass Fiber Filler , Filled/Reinforced Thermoset

Material Notes:

Epiall 1914A is a short fiberglass reinforced epoxy molding compound, with excellent dimensional stability, good strength properties and good electrical insulation properties. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-Epiall-1914A-Short-Glass-Fiber-Reinforced-Epoxy.php

Physical Properties	Metric	English	Comments
Bulk Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1895
Density	1.99 g/cc	0.0719 lb/in ³	ASTM D792
Water Absorption	0.20 % @Temperature 50.0 °C, Time 173000 sec	0.20 % @Temperature 122 °F, Time 48.0 hour	ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	63	63	ASTM D2583
Tensile Strength at Break	91.0 MPa	13200 psi	ASTM D638
Flexural Strength	135 MPa	19600 psi	at rupture; ASTM D790
Flexural Modulus	22.0 GPa	3190 ksi	ASTM D790
Compressive Strength	237 MPa	34400 psi	ASTM D695
Izod Impact, Notched	0.380 J/cm	0.712 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 µm/m-°C	7.78 µin/in-°F	ASTM E831
CTE, linear, Transverse to Flow	33.0 µm/m-°C	18.3 µin/in-°F	ASTM E831
Maximum Service Temperature, Air	130 °C	266 °F	UL Temperature Index; UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	280 °C	536 °F	As Molded; ASTM D648A
	>= 282 °C	>= 540 °F	Post Baked; ASTM D648A
	V-0	V-0	

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Constant	4.5 @Frequency 1.00e+6 Hz	4.5 @Frequency 1.00e+6 Hz	wet; ASTM D150
Dielectric Strength	12.2 kV/mm @Frequency 60.0 Hz	310 kV/in @Frequency 60.0 Hz	step-by-step, wet; ASTM D149
	12.6 kV/mm @Frequency 60.0 Hz	320 kV/in @Frequency 60.0 Hz	short time, wet; ASTM D149
Dissipation Factor	0.020 @Frequency 1.00e+6 Hz	0.020 @Frequency 1.00e+6 Hz	wet; ASTM D150
Arc Resistance	190 sec	190 sec	ASTM D495

Descriptive Properties	Value	Comments
Colors	Black, Green	
Form	Granular	
Molding Method	Compression	
	Transfer	

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