

Sumitomo Epoxy EM 7302

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

Message:

EM 7302 is a long fiberglass reinforced epoxy molding compound, which features high strength and toughness for structural components. This compound is designed for applications requiring Mil-M-46069 certification.

General Information			
Filler / Reinforcement	Long Glass Fiber		
Features	High Strength		
	Ultra High Toughness		
Uses	Structural Parts		
Agency Ratings	MIL MIL		
Appearance	Black		
	Natural Color		
Forms	Flakes		
Processing Method	Compression Molding		
	Resin Transfer Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.85	g/cm ³	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.10	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, Compression Molded)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	138	MPa	ASTM D638
Flexural Modulus (Compression Molded)	24000	MPa	ASTM D790
Flexural Strength (Break)	345	MPa	ASTM D790
Compressive Strength	255	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	1600	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, Compression Molded)	> 280	°C	ASTM D648
CLTE - Flow	1.2E-5	cm/cm/°C	ASTM E831

Thermal Conductivity	0.42	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	13	kV/mm	ASTM D149
Dielectric Constant ¹ (1 MHz)	5.80		ASTM D2520
Dissipation Factor ² (1 MHz)	0.017		ASTM D150
Arc Resistance	120	sec	ASTM D495
NOTE			
1.	Wet		
2.	Wet		

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