Vyncolit® EM7302

Epoxy; Epoxide Vyncolit N.V.

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	The degassing effect is low to no			
	Low viscosity			
	Solvent resistance			
	Anti-salt water/fog			
	Good thermal shock resistance			
	Good chemical resistance			
	alkali resistance			
	acid resistance			
	Non-corrosive			
Uses	Electrical components			
	Military application			
	Connector			
Agency Ratings	FDA not rated			
	MIL MIL			
	USDA Unspecified Approval			
Appearance	Black			
	Natural color			
Forms	Particles			
Processing Method	Resin transfer molding			
	Compression molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.85	g/cm³	ASTM D792	
Molding Shrinkage - Flow (Compression Molded)	0.10	%	ASTM D955	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (M-Scale)	105		ASTM D785	
Nockwell Hardriess (W. Scale)				

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, Unannealed, Compression Molded)	250	°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 ¹	13	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.80		ASTM D150
Dissipation Factor (1 MHz)	0.017		ASTM D150

Gauge: 0.3The value listed as Thermal Conductivity, ASTM C177, was tested in accordance with ASTM C518.Water Absorption, ASTM D570, 48 hrs, 50°C: 0.15%DTUL @264psi - Unannealed, ASTM D648, Post Baked, Compression Molded: 250°CDielectric Strength, ASTM D149, 60 Hz, Method B, wet: 12.8 kV/mmDielectric Constant, ASTM D150, 1000000 Hz, dry: 5.8Dissipation Factor, ASTM D150, 1000000 Hz, dry: 0.017Compression and Transfer Molding Conditions:

Preheat Temperature: 200 to 225 °F Mold Temperature: 270 to 330 °F

Compression Mold Pressure: 1000 to 8000 psi Transfer Mold Pressure: 2500 to 8000 psi Cure Time, 0.125 in: 150 to 300 sec

NOTE

1. Method B (step by step)

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