Vyncolit® E 8940SG

Epoxy; Epoxide

Vyncolit N.V.

Message:

E 8940SG is a mineral reinforced epoxy molding compound, formulated for the encapsulation of electronic devices requiring high quality, exceptional reliability, and outstanding moldability. Typical applications include passive electronics, RC networks and rectifiers.

General Information	
Filler / Reinforcement	Mineral filler
Features	The degassing effect is low to no Low viscosity Solvent resistance Anti-salt water/fog Good formability Good thermal shock resistance Good chemical resistance alkali resistance acid resistance Non-corrosive
Uses	Electrical components Military application
Agency Ratings	FDA not rated USDA Unspecified Approval
Appearance	Black
Forms	Particles
Processing Method	Resin transfer molding Compression molding Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm³	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.30 - 0.50	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break, Compression Molded)	86.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	15200	MPa	ASTM D790
Flexural Strength (Break)	120	MPa	ASTM D790

Compressive Strength	240	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (Compression Molded)	19	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	225	°C	ASTM D648
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.72	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength [1]	14	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.00		ASTM D150
Dissipation Factor (1 MHz)	6.0E-3		ASTM D150
Injection	**Nominal Value**	**Unit**	
Middle Temperature	60.0 - 82.2	°C	
Nozzle Temperature	82.2 - 93.3	°C	
Processing (Melt) Temp	104 - 116	°C	
Mold Temperature	135 - 177	°C	
Injection Pressure	34.5 - 68.9	MPa	
Holding Pressure	13.8 - 34.5	MPa	
Back Pressure	0.345	MPa	

Injection instructions

Gauge: 0.3The value listed as Thermal Conductivity, ASTM C177, was tested in accordance with ASTM C518.Powder Density, ASTM D1895: 0.8 g/cm^{3}Water Absorption, ASTM D570, 48 hrs, 50°C: 0.1%DTUL @264psi - Unannealed, ASTM D648, Post Baked, Compression Molded: 225°CDielectric Strength, ASTM D149, 60 Hz, Method B, dry: 14.4 kV/mmDielectric Constant, ASTM D150, 1000000 Hz, dry: 3Dissipation Factor, ASTM D150, 1000000 Hz, dry: 0.006Compression and Transfer Molding Conditions:
Preheat Temperature: 180 to 220 °F
Mold Temperature: 250 to 530 °F
Compression Mold Pressure: 200 to 1500 psi
Transfer Mold Pressure: 100 to 2000 psi
Cure Time, 0.125 in: 75 sec

NOTE	
1.	Method B (step by step)

Recommended distributors for this material

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