Vyncolit® E 8398

Epoxy; Epoxide

Vyncolit N.V.

Message:

E 8398 is a fiberglass and mineral reinforced epoxy molding compound, with excellent dimensional stability, good electrical insulation properties, and good strength.

General Information	
Filler / Reinforcement	Glass \Mineral
Features	Good dimensional stability The degassing effect is low to no Low viscosity Solvent resistance Anti-salt water/fog Good thermal shock resistance Good strength Good chemical resistance alkali resistance acid resistance Non-corrosive
Uses	Electrical components Electronic insulation Military application Connector
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	1.98	g/cm³	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.50	%	ASTM D955

Mechanical	Nominal Value	Unit	Test Method

Tensile Strength (Break, Compression Molded)	76.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	17000	MPa	ASTM D790
Flexural Strength (Break)	140	MPa	ASTM D790
Compressive Strength	280	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)	220	°C	ASTM D648
CLTE - Flow	2.4E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.84	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength			ASTM D149
-- [1]	21	kV/mm	ASTM D149
-- [2]	15	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.90		ASTM D150
Dissipation Factor (1 MHz)	0.014		ASTM D150
Arc Resistance	180	sec	ASTM D495
Injection	**Nominal Value**	**Unit**	
Middle Temperature	60.0 - 82.2	°C	
Nozzle Temperature	82.2 - 93.3	°C	
Processing (Melt) Temp	93.3 - 116	°C	
Mold Temperature	149 - 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: 0.9 g/cm^{3}Water Absorption, ASTM D570, 48 hrs, 50°C: 0.1%DTUL @264psi - Unannealed, ASTM D648, Post Baked, Compression Molded: >282°CDielectric Strength, ASTM D149, 60 Hz, Method B, wet: 15.4. kV/mmDielectric Strength, ASTM D149, 60 Hz, Method A, wet: 21.1 kV/mmDielectric Strength, ASTM D149, 60 Hz, Method B, dry: 16.2 kV/mmDielectric Strength, ASTM D149, 60 Hz, Method A, dry: 22 kV/mmDielectric Constant, ASTM D150, 1000000 Hz, wet: 3.9Dissipation Factor, ASTM D150, 1000000 Hz, wet: 0.014Compression and Transfer Molding Conditions:
Preheat Temperature: 180 to 225 °F
Mold Temperature: 325 to 370 °F
Compression Mold Pressure: 1000 to 5000 psi
Transfer Mold Pressure: 1500 to 8000 psi
Cure Time, 0.125 in: 60 to 90 sec

NOTE

1.	Method A (short time)
2.	Method B (step by step)

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China