Vyncolit® E 264H

Epoxy; Epoxide

Vyncolit N.V.

Message:

Vyncolit E 264H is an epoxy; Epoxy resin material contains long glass fiber as filler. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is: resin transfer molding or compression molding.
The main features of Vyncolit E 264H are:
chemical resistance
low viscosity
Heat resistance
Typical application areas include:
Electrical/electronic applications
food contact applications
military applications

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 USDA Unspecified Approval
Forms	Particles
Processing Method	Resin transfer molding Compression molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.89	g/cm³	ASTM D792
Bulk Factor	7.0		ASTM D1895
Molding Shrinkage - Flow (Transfer Molded)	0.10	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	105		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	103	MPa	ASTM D638
Flexural Modulus	24800	MPa	ASTM D790
Flexural Strength	269	MPa	ASTM D790
Compressive Strength	186	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	750	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	250	°C	ASTM D648
Thermal Conductivity	0.42	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength			ASTM D149
-- [1]	13	kV/mm	ASTM D149
-- [2]	12	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.80		ASTM D150
Dissipation Factor (1 MHz)	0.017		ASTM D150
Arc Resistance	120	sec	ASTM D495

Injection instructions

Gauge: 0.3The value listed as Thermal Conductivity, ASTM C177, was tested in accordance with ASTM F433.Water Absorption, ASTM D570, 48 hrs, 50°C: 0.15%Dielectric Strength, ASTM D149, 60 Hz, Method A, wet: 325 V/milDielectric Strength, ASTM D149, 60 Hz, Method A, dry: 375 V/milDielectric Strength, ASTM D149, 60 Hz, Method B, wet: 300 V/milDielectric Strength, ASTM D149, 60 Hz, Method B, dry: 325 V/milDielectric Constant, ASTM D150, 1000000 Hz, dry: 5.8Dissipation Factor, ASTM D150, 1000000 Hz, dry: 0.017Bulk Factor, ASTM D1895: 6 to 8Compression 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 A (short time)
2.	Method B (step by step)

Recommended distributors for this material

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WECHAT