Vyncolit® E7459

Epoxy; Epoxide

Vyncolit N.V.

Message:

Vyncolit E7459 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 the Vyncolit E7459 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	Disc
Processing Method	Resin transfer molding Compression molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.77	g/cm³	ASTM D792
Bulk Factor	7.0		ASTM D1895
Molding Shrinkage - Flow (Transfer Molded)	0.50	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	115		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	68.9	MPa	ASTM D638
Flexural Modulus	16500	MPa	ASTM D790
Flexural Strength	159	MPa	ASTM D790
Compressive Strength	172	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	210	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	250	°C	ASTM D648
Thermal Conductivity	0.60	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength [1]	15	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.10		ASTM D150
Dissipation Factor (1 MHz)	0.010		ASTM D150
Arc Resistance	180	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: 0.2%Notched Izod Impact, ASTM D256, Method A: 3 to 5 ft/lb/inDielectric Strength, ASTM D149, 60 Hz, Method A, dry: 380 V/milDielectric Constant, ASTM D150, 1000000 Hz, dry: 5.1Dissipation Factor, ASTM D150, 1000000 Hz, dry: 0.01Bulk 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)

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

WECHAT