

Vyncolit® 1908K

Epoxy; Epoxide

Vyncolit N.V.

Message:

Vyncolit 1908K is an epoxy; Epoxy resin material, containing the filler is glass fiber reinforced material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing methods are: resin transfer molding, compression molding or injection molding.

The main features of Vyncolit 1908K are:

chemical resistance

low viscosity

Heat resistance

Typical application areas include:

Electrical/electronic applications

food contact applications

military applications

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
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 Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.99	g/cm ³	ASTM D792
Bulk Factor	2.5		ASTM D1895

Molding Shrinkage - Flow (Compression Molded)	0.15 - 0.25	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	72		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	103	MPa	ASTM D638
Flexural Modulus	19300	MPa	ASTM D790
Flexural Strength	172	MPa	ASTM D790
Compressive Strength	269	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	40	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	288	°C	ASTM D648
CLTE - Flow	2.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹	13	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.20		ASTM D150
Dissipation Factor (1 MHz)	0.012		ASTM D150
Arc Resistance	185	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: 0.3 Water Absorption, ASTM D570, 48 hrs, 50°C: 0.17% Dielectric Strength, ASTM D149, 60 Hz, Method B, wet: 330 V/mil Dielectric Constant, ASTM D150, 1000000 Hz, wet: 4.2 Dissipation Factor, ASTM D150, 1000000 Hz, wet: 0.012 Bulk Factor, ASTM D1895: 2 to 3 Compression 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 B (step by step)

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