Vyncolit® TEM 9010

Epoxy; Epoxide Vyncolit N.V.

Message:

Vyncolit TEM 9010 is an epoxy. Epoxy resin material, containing filler 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 TEM 9010 are:

chemical resistance low viscosity Good toughness Heat resistance Typical application areas include: Electrical/electronic applications food contact applications military applications

Specific Gravity

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		
	Good toughness		
	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

g/cm³

ASTM D792

1.77

Bulk Factor	2.1		ASTM D1895
Molding Shrinkage - Flow (Transfer Molded)	0.25	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	96.5	MPa	ASTM D638
Flexural Modulus	17200	MPa	ASTM D790
Flexural Strength	159	MPa	ASTM D790
Compressive Strength	207	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	43	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	160	°C	ASTM D648
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.33	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength			ASTM D149
1	15	kV/mm	ASTM D149
2	14	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.00		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	
Dragossing (Molt) Tomas			
Processing (Melt) Temp	93.3 - 116	°C	
Mold Temperature	93.3 - 116 149 - 177	°C °C	
Mold Temperature	149 - 177	°C	

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: 0.27%Dielectric Strength, ASTM D149, 60 Hz, Method A, wet: 390 V/milDielectric Strength, ASTM D149, 60 Hz, Method A, dry: 400 V/milDielectric Strength, ASTM D149, 60 Hz, Method B, wet: 350 V/milDielectric Strength, ASTM D149, 60 Hz, Method B, dry: 350 V/milDielectric Constant, ASTM D150, 1000000 Hz, dry: 4Dissipation Factor, ASTM D150, 1000000 Hz, dry: 0.014Bulk Factor, ASTM D1895: 2 to 2.2Compression 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)	

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