

Vyncolit® E 57425

Epoxy; Epoxide

Vyncolit N.V.

Message:

Vyncolit E 57425 is an epoxy; Epoxy resin material contains carbonyl iron powder. 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 E 57425 are:

- chemical resistance
- low viscosity
- Heat resistance

Typical application areas include:

- food contact applications
- Electrical/electronic applications
- military applications

General Information			
Filler / Reinforcement	Carbonyl iron dust		
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		
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	3.20	g/cm ³	ASTM D792
Bulk Factor	2.3		ASTM D1895
Molding Shrinkage - Flow (Transfer Molded)	0.30 - 0.50	%	ASTM D955

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	20.7	MPa	ASTM D638
Flexural Modulus	11000	MPa	ASTM D790
Flexural Strength	65.5	MPa	ASTM D790
Compressive Strength	197	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	21	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	232	°C	ASTM D648
CLTE - Flow	3.4E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	1.1	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹	9.8	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	10.6		ASTM D150
Dissipation Factor (1 MHz)	0.025		ASTM D150
Arc Resistance	10.0	sec	ASTM D495
Injection	Nominal Value	Unit	
Middle Temperature	60.0 - 82.2	°C	
Nozzle Temperature	82.2 - 93.3	°C	
Processing (Melt) Temp	104 - 116	°C	
Mold Temperature	135 - 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 F433.Water Absorption, ASTM D570, 48 hrs, 50°C: 0.2%Dielectric Strength, ASTM D149, 60 Hz, Method B, dry: 250 V/milDielectric Constant, ASTM D150, 1000000 Hz, dry: 10.6Dissipation Factor, ASTM D150, 1000000 Hz, dry: 0.025Bulk Factor, ASTM D1895: 2 to 2.5Compression and Transfer Molding Conditions: Preheat Temperature: 180 to 220 °F Mold Temperature: 250 to 530 °F Compression Mold Pressure: 200 to 1500 psi Transfer Mold Pressure: 100 to 2000 psi Cure Time, 0.125 in: 75 sec			
NOTE			
1.	Method B (step by step)		

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