

Vyncolit® 4064

Epoxy; Epoxide

Vyncolit N.V.

Message:

Vyncolit 4064 is a kind of epoxy. Epoxy resin material contains mineral filler. 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 the Vyncolit 4064 are:

- flame retardant/rated flame
- chemical resistance
- low viscosity
- Heat resistance

Typical application areas include:

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

General Information			
Filler / Reinforcement	Mineral filler		
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		
Uses	Non-corrosive		
Agency Ratings	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	1.79	g/cm ³	ASTM D792
Bulk Factor	2.5		ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.40 - 0.70	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	70		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	41.4	MPa	ASTM D638
Flexural Modulus	19000	MPa	ASTM D790
Flexural Strength	131	MPa	ASTM D790
Compressive Strength	262	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	27	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	2.0E-5	cm/cm/°C	ASTM D696
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI	130	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹	13	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.50		ASTM D150
Dissipation Factor (1 MHz)	0.019		ASTM D150
Arc Resistance	180	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm)	V-0		UL 94
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: 0.3Water Absorption, ASTM D570, 48 hrs, 50°C: 0.2%Dielectric Strength, ASTM D149, 60 Hz, Method B, wet: 320 V/milDielectric Constant, ASTM D150, 1000000 Hz, wet: 3.5Dissipation Factor, ASTM D150, 1000000 Hz, wet: 0.019Bulk Factor, ASTM D1895: 2 to 3Compression 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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