

Epiall® 1961B

Epoxy; Epoxide

Vyncolit N.V.

Message:

Epiall 1961B is a mineral and short fiberglass filled epoxy compound, formulated for the encapsulation of passive electronic devices.

General Information			
Filler / Reinforcement	Glass \Mineral		
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		
Appearance	Black		
	Blue		
	Green		
Forms	Particles		
Processing Method	Resin transfer molding		
	Compression molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.90	g/cm ³	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.20 - 0.40	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	65		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength (Break, Compression Molded)	59.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	14500	MPa	ASTM D790
Flexural Strength (Break)	124	MPa	ASTM D790
Compressive Strength	221	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	35	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	260	°C	ASTM D648
CLTE - Flow	3.8E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.67	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹	13	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.60		ASTM D150
Dissipation Factor (1 MHz)	0.019		ASTM D150
Arc Resistance	180	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	34	%	ASTM D2863
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 C518.Water Absorption, ASTM D570, 48 hrs, 50°C: 0.2%DTUL @264psi - Unannealed, ASTM D648, Post Baked, Compression Molded: 260°CDielectric Strength, ASTM D149, 60 Hz, Method B, wet: 12.8 kV/mmDielectric Constant, ASTM D150, 1000000 Hz, wet: 3.6Dissipation Factor, ASTM D150, 1000000 Hz, wet: 0.019Compression 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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