Epiall® 1908B

Epoxy; Epoxide

Vyncolit N.V.

Message:

Epiall® 1908B is a short fiberglass reinforced epoxy molding compound, with excellent dimensional stability, good strength properties and good electrical insulation properties.

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 MIL MIL 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	1.98	g/cm³	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.20 - 0.40	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**

Barcol Hardness	70		ASTM D2583
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break, Compression Molded)	76.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	15900	MPa	ASTM D790
Flexural Strength (Break)	145	MPa	ASTM D790
Compressive Strength	240	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (Compression Molded)	37	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	282	°C	ASTM D648
CLTE - Flow	3.7E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.73	W/m/K	ASTM C177
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]	12	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.00		ASTM D150
Dissipation Factor (1 MHz)	0.020		ASTM D150
Arc Resistance	180	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (6.35 mm)	V-0		UL 94
Oxygen Index	40	%	ASTM D2863

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: >282°CDielectric Strength, ASTM D149, 60 Hz, Method B, wet: 12.2 kV/mmDielectric Constant, ASTM D150, 1000000 Hz, wet: 4Dissipation Factor, ASTM D150, 1000000 Hz, wet: 0.02Compression and Transfer Molding Conditions:
Preheat Temperature: 200 to 225 °F
Mold Temperature: 270 to 330 °F
Compression Mold Pressure: 1000 to 8000 psi
Transfer Mold Pressure: 2500 to 8000 psi
Cure Time, 0.125 in: 150 to 300 sec

NOTE	
1.	Method B (step by step)

Recommended distributors for this material

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