

Vyncolit® 1908K-2

Epoxy; Epoxide

Vyncolit N.V.

Message:

Epiall 1908K-2 is a short fiberglass reinforced epoxy molding compound, with excellent dimensional stability and high strength properties.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good dimensional stability		
	High strength		
Appearance	Black		
Forms	Particles		
Processing Method	Resin transfer molding		
	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.95	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.15 - 0.35	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	70		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	97.0	MPa	ASTM D638
Flexural Modulus	18600	MPa	ASTM D790
Flexural Strength (Break)	166	MPa	ASTM D790
Compressive Strength	240	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	282	°C	ASTM D648
Linear thermal expansion coefficient			ASTM E831
Flow	1.5E-5	cm/cm/°C	ASTM E831
Lateral	3.8E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹	13	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.80		ASTM D150
Dissipation Factor (1 MHz)	0.017		ASTM D150
Arc Resistance	180	sec	ASTM D495
Additional Information			

Powder Density, ASTM D1895: 0.85 g/cm³Water Absorption, ASTM D570, 48 hrs, 50°C: 0.2%DTUL @264psi - Unannealed, ASTM D648, Post Baked: >282°CDielectric Strength, ASTM D149, 60 Hz, Method B, wet: 12.8 kV/mmDielectric Constant, ASTM D150, 1000000 Hz, wet: 3.8Dissipation Factor, ASTM D150, 1000000 Hz, wet: 0.017

NOTE

1. Method B (step by step)

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