

Vyncolit® E 8354-19189-2

Epoxy; Epoxide
Vyncolit N.V.

Message:

E 8354-19189-2 is a glass and mineral reinforced epoxy molding compound, formulated for the encapsulation of devices requiring high quality and thermal shock resistance.

General Information	
Filler / Reinforcement	Glass \Mineral
Features	Good thermal shock resistance
Appearance	Black
Forms	Particles
Processing Method	Resin transfer molding Compression molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.84	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.30 - 0.35	%	ASTM D955

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	72.0	MPa	ASTM D638
Flexural Modulus	16500	MPa	ASTM D790
Flexural Strength (Break)	124	MPa	ASTM D790
Compressive Strength	210	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	24	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	282	°C	ASTM D648
CLTE - Flow	1.7E-5	cm/cm/°C	ASTM E831

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹	15	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.80		ASTM D150
Dissipation Factor (1 MHz)	0.014		ASTM D150
Arc Resistance	180	sec	ASTM D495

Additional Information	
Powder Density, ASTM D1895: 0.8 g/cm³Water Absorption, ASTM D570, 48 hrs, 50°C: 0.15%DTUL @264psi - Unannealed, ASTM D648, Post Baked: >282°CDielectric Strength, ASTM D149, 60 Hz, Method A, dry: 14.7 kV/mmDielectric Constant, ASTM D150, 1000000 Hz, dry: 14.7Dissipation Factor, ASTM D150, 1000000 Hz, dry: 0.014	

NOTE	
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1. Method A (short time)

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