

Vyncolit® E8436FR-397MGP

Epoxy; Epoxide

Vyncolit N.V.

Message:

E 8436FR-397MGP is a mineral filled epoxy encapsulation compound, formulated for optoelectronic devices requiring exceptional reliability, and outstanding moldability. This compound features high opacity and high reflectivity, especially at infrared wavelengths.

General Information			
Filler / Reinforcement	Mineral filler		
Features	Good formability		
Uses	Electrical components		
Appearance	White		
Forms	Particles		
Processing Method	Resin transfer molding		
	Compression molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.05	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30	%	ASTM D955

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	79.0	MPa	ASTM D638
Flexural Modulus	17200	MPa	ASTM D790
Flexural Strength (Break)	110	MPa	ASTM D790
Compressive Strength	270	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	19	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	235	°C	ASTM D648
CLTE - Flow	2.4E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	1.1	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	13	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.90		ASTM D150
Dissipation Factor (1 MHz)	6.0E-3		ASTM D150

Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm)	V-0		UL 94

Additional Information			
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Powder Density, ASTM D1895: 1.1 g/cm³Water Absorption, ASTM D570, 48 hrs, 50°C: 0.1%DTUL @264psi - Unannealed, ASTM D648, Post Baked: 235°CDielectric Strength, ASTM D149, 60 Hz, Method B, dry: 13 kV/mmDielectric Constant, ASTM D150, 1000000 Hz, dry: 4.9Dissipation Factor, ASTM D150, 1000000 Hz, dry: 0.006

NOTE

1. Method B (step by step)

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