

Vyncolit® E 8833C

Epoxy; Epoxide

Vyncolit N.V.

Message:

E8833C is a fiberglass reinforced epoxy molding compound, with excellent dimensional stability and good strength at elevated temperatures.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good dimensional stability		
	Good strength		
Appearance	Black		
Forms	Particles		
Processing Method	Resin transfer molding		
	Compression molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.89	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 - 0.40	%	ASTM D955

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	85.0	MPa	ASTM D638
Flexural Modulus	18000	MPa	ASTM D790
Flexural Strength (Break)	140	MPa	ASTM D790
Compressive Strength	200	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	30	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	130	°C	ASTM D648
CLTE - Flow	3.7E-5	cm/cm/°C	ASTM D696
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)	4.00		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-1		UL 94

Additional Information

The value listed as CTLE Flow, ASTM D696, was tested in accordance with ASTM D3386. Powder Density, ASTM D1895: 0.9 g/cm³ Water Absorption, ASTM D570, 48 hrs, 50°C: 0.2% Dielectric Strength, ASTM D149, 60 Hz, Method B, wet: 13 kV/mm Dielectric Constant, ASTM D150, 1000000 Hz, wet: 4 Dissipation Factor, ASTM D150, 1000000 Hz, wet: 0.02

NOTE

1. Method B (step by step)

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