

# 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<br>Good strength   |
| Appearance             | Black   |
| Forms                  | Particles                                     |
| Processing Method      | Resin transfer molding<br>Compression molding |

| Physical                 | Nominal Value | Unit              | Test Method |
|--------------------------|---------------|-------------------|-------------|
| Specific Gravity         | 1.89          | g/cm <sup>3</sup> | 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 <sup>1</sup> | 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/cm<sup>3</sup> 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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