# Epoxies, Ect. 20-3035 (Cat.140)

Epoxy; Epoxide

Epoxies, Etc.

## Message:

20-3035 is a low density, two component epoxy potting and encapsulating system. The 20-3035 is less than half the weight of most commercially available potting compounds.
20-3035 exhibits very low shrinkage during the cure cycle and also has a low coefficient of thermal expansion. This unique epoxy system is an ideal material for the potting of electronic assemblies where a low dielectric constant and low weight are required.
This epoxy syntactic foam system utilizes an advanced micro balloon technology filler. The 20-3035 provides high strength and stiffness, thermal and environmental stability, creep resistance, and water resistance.
Features:
Low Dielectric Constant
Low Coefficient of Thermal Expansion
Low Shrinkage
Low Density
Excellent Moisture Resistance

| General Information | |
|---|---|
| Features | Good Creep Resistance<br>Good Thermal Stability<br>High Stiffness<br>High Strength<br>Low Density<br>Low Shrinkage<br>Low to No Water Absorption |
| Uses | Electrical/Electronic Applications |
| Processing Method | Encapsulating<br>Potting |

| Physical | Nominal Value | Unit |
|---|---|---|
| Molding Shrinkage - Flow | 0.10 | % |
| **Mechanical** | **Nominal Value** | **Unit** |
| Flexural Strength | 34.5 | MPa |
| **Thermal** | **Nominal Value** | **Unit** |
| CLTE - Flow | 4.3E-5 | cm/cm/°C |
| Thermal Conductivity | 0.19 | W/m/K |
| **Thermoset** | **Nominal Value** | **Unit** |
| Thermoset Mix Viscosity (25°C) | 5000 | cP |
| **Additional Information** | **Nominal Value** | **Unit** |
| Operating Temperature | -65.0 to 105 | °C |
| Outgassing | | |
| % CVCM | 0.0900 | |
| % TMLV | 0.740 | |

| Uncured Properties | Nominal Value | Unit |
|---|---|---|
| Mix Ratio by Weight (PBW) | | |
| Part A | 100 | |
| Part B | 23 | |
| Density (25°C) | 0.838 | g/cm³ |
| Viscosity [1] (25°C) | 45 | Pa·s |
| Curing Time | | |
| 65°C | 1.0 to 2.0 | hr |
| 45°C | 4.0 to 6.0 | hr |
| 25°C | 16 to 24 | hr |
| Pot Life [2] (25°C) | 30 | min |
| Cured Properties | Nominal Value | Unit |
| Water Absorption [3] | 0.40 | % |
| Shore Hardness (Shore D) | 78 | |
| Tensile Strength | 29.6 | MPa |
| Compression Strength | 68.9 | MPa |
| Electric Strength | 15 | kV/mm |
| Relative Permittivity (1 MHz) | 2.90 | |
| Volume Resistivity (25°C) | > 1.0E+13 | ohms·cm |
| Dissipation Factor (1 MHz) | 0.050 | |
| NOTE | | |
| 1. | Part A | |
| 2. | 100 grams | |
| 3. | After 24 hours | |

## Recommended distributors for this material

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