

FARBOSET® 2461

Epoxy; Epoxide

Cosmic Plastics, Inc.

Message:

Cosmic FARBOSET 2461 Black is a mineral-filled epoxy molding compound featuring fast cure rates, superb moldability, excellent thermal shock and moisture resistance. This compound was especially formulated to achieve a high glass transition temperature for optimum reliability performance in very thin sections. It is designed to encapsulate a wide range of devices including capacitors, resistors, and inductor coils.

| General Information | | | |
|-------------------------------|------------------------------------|-------------------|-------------|
| Filler / Reinforcement | Mineral | | |
| Features | Fast Cure | | |
| | Good Moldability | | |
| | Good Thermal Shock Resistance | | |
| | Moisture Resistant | | |
| Uses | Electrical/Electronic Applications | | |
| Appearance | Black | | |
| | Colors Available | | |
| Forms | Granules | | |
| Processing Method | Encapsulating | | |
| Physical | Nominal Value | Unit | |
| Specific Gravity | | | |
| -- | 1.88 | g/cm ³ | |
| -- ¹ | 2.08 | g/cm ³ | |
| Apparent Density ² | 0.90 | g/cm ³ | |
| Spiral Flow | 76.0 | cm | |
| Molding Shrinkage - Flow | 0.40 | % | |
| Mechanical | Nominal Value | Unit | |
| Tensile Strength | 56.5 | MPa | |
| Flexural Modulus | 13400 | MPa | |
| Flexural Strength | 85.5 | MPa | |
| Compressive Strength | 236 | MPa | |
| Thermal | Nominal Value | Unit | |
| Glass Transition Temperature | 163 | °C | |
| CLTE - Flow | | | |
| -- ³ | 2.7E-5 | cm/cm/°C | |
| -- ⁴ | 6.0E-5 | cm/cm/°C | |
| Thermal Conductivity | 0.96 | W/m/K | |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | > 1.5E+15 | ohms | |

| | | | |
|---|--|---------|-------------|
| Volume Resistivity | 2.2E+15 | ohms·cm | |
| Dielectric Strength (6.35 mm) | 15 | kV/mm | |
| Dielectric Constant (1 kHz) | 5.12 | | |
| Dissipation Factor (1 kHz) | 0.012 | | |
| Arc Resistance | 194 | sec | |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (3.18 mm, Tested by Cosmic Plastics) | V-0 | | UL 94 |
| Thermoset | Nominal Value | Unit | |
| Shelf Life ⁵ | | | |
| 4°C | 52 | wk | |
| 25°C | 1.0 | wk | |
| 35°C | 0.29 | wk | |
| Post Cure Time (150°C) | 4.0 | hr | |
| Uncured Properties | Nominal Value | Unit | |
| Curing Time | | | |
| 150°C ⁶ | 8.6E-3 | hr | |
| 150°C | 0.017 to 0.033 | hr | |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 145 to 180 | °C | |
| Injection Pressure | 1.38 to 6.89 | MPa | |
| NOTE | | | |
| 1. | Molded | | |
| 2. | Powder | | |
| 3. | Alpha 1 | | |
| 4. | Alpha 2 | | |
| 5. | Defined as not more than 40% loss of spiral flow based on original values. | | |
| 6. | Hot Plate Cure Time | | |

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