

Epocast 938-A2

Epoxy; Epoxide

Huntsman Advanced Materials

Message:

Description:

Epocast® 938-A-2 epoxy structural syntactic is a frozen, one-component, flame-retardant compound designed for reinforcing honeycomb structures. Epocast® 938-A-2 epoxy syntactic features high compressive strength at temperatures to >350°F (177°C). When thawed, it can be extruded from cartridges as a thixotropic paste. Epocast® 938-A2 is qualified to BMS, 5-28, Type 12 (classes 1 and 2) and Type 13; SMS 116201, Type 2; RMS 027, Type X; and others.

| General Information | | | |
|---|--|-------------------|-------------|
| Features | Good compressive strength Heat resistance, high Flame retardancy | | |
| Uses | Components | | |
| Appearance | White-like | | |
| Processing Method | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | < 1.40 | g/cm ³ | ASTM D1622 |
| Flow Length | | mm | BMS 5-28 |
| flammability-horizontal or vertical | Self-extinguishing | | |
| Extrudability (25°C) | > 1000 | g/min | BMS 5-28 |
| Weight Gain ¹ | | % | ASTM D543 |
| Work Life - 100 gms, after thaw (25°C) | 18.0 | hr | ASTM D1338 |
| Mechanical | Nominal Value | Unit | Test Method |
| Compressive Strength | | | ASTM D695 |
| 177°C | > 89.6 | MPa | ASTM D695 |
| 25°C | > 152 | MPa | ASTM D695 |
| Additional Information | Nominal Value | Unit | Test Method |
| Cure Schedule: Heat the material from room temperature at the rate of 5-7°F per minute, plus 1 hour at 350°F (177°C) or 90 minutes at 250°F (121°C). Cure temperature refers to temperature of material as determined by thermocouple. (Slow heat rise to 5-7°F is preferred to reduce shrinkage and minimize gassing during cure). | | | |
| NOTE | | | |

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Fluids: DI water, Skydrol 500B,
MIL-H-5606 hydraulic, ASTM D 471
reference fuel

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