

# Epocast 8623-A/Hardener 946

Epoxy; Epoxide

Huntsman Advanced Materials

## Message:

DESCRIPTION: Epocast® 8623-A/Hardener 946 epoxy syntactic is a two-part, core-filling compound with a soft paste viscosity that provides for easy extrudability through a 1/8-in. (3mm) nozzle. Epocast® 8623-A/Hardener 946 epoxy syntactic is self-extinguishing and cures fast at room temperature, permitting filled edges to be sanded within 3-4 hours.

| General Information |                    |
|---------------------|--------------------|
| Features            | Low density        |
|                     | Fast curing        |
|                     | Self-extinguishing |
| Appearance          | White              |
|                     | Amber              |
|                     | White-like         |
| Processing Method   | potting            |
|                     | Extrusion          |

| Physical                                | Nominal Value | Unit              | Test Method |
|---|---------------|-------------------|-------------|
| Specific Gravity                        |               |                   | ASTM D792   |
| -- 1                                    | 0.650         | g/cm <sup>3</sup> | ASTM D792   |
| -- 2                                    | 0.700         | g/cm <sup>3</sup> | ASTM D792   |
| -- 3                                    | 1.00          | g/cm <sup>3</sup> | ASTM D792   |
| Solids Content <sup>4</sup>             | 100           | %                 | ASTM D1644  |
| Viscosity                               |               |                   | ASTM D2393  |
| -- 5                                    | Paste         |                   | ASTM D2393  |
| -- 6                                    | Soft-paste    |                   | ASTM D2393  |
| Flash Point - COC                       |               |                   | ASTM D92    |
| -- 7                                    | 99            | °C                | ASTM D92    |
| -- 8                                    | > 186         | °C                | ASTM D92    |
| flammability-self extinguishing time    | 30.0          | sec               | BMS 5-28    |
| Cure Time (25°C)                        | 1.0           | day               |             |
| Tensile Lap Shear - etched al/al (25°C) | 11.0          | MPa               | ASTM D1002  |
| Weight Gain <sup>9</sup>                |               |                   | ASTM D570   |
| Distilled water                         | 1.5           | %                 | ASTM D570   |
| Mil-M-5606, hydraulic fluid             | 0.40          | %                 | ASTM D570   |
| Mil-S-3136, Type III test fluid : 25°C  | 0.30          | %                 | ASTM D570   |
| Skydrol 500-A                           | 0.60          | %                 | ASTM D570   |
| Work Life - 100 gms (25°C)              | 12.0 - 20.0   | min               | ASTM D1338  |

| Mechanical                                   | Nominal Value               | Unit | Test Method |
|--|-----------------------------|------|-------------|
| Compressive Modulus                          | 1030                        | MPa  | ASTM D695   |
| Compressive Strength (25°C)                  | 27.6                        | MPa  | ASTM D695   |
| Thermoset                                    | Nominal Value               | Unit | Test Method |
| Thermoset Components                         |                             |      |             |
| Resin  | Mixing ratio by weight: 100 |      |             |
| Hardening method                             | Mixing ratio by weight: 14  |      |             |
| Thermoset Mix Viscosity <sup>10</sup> (25°C) | 350                         | cP   | ASTM D2393  |
| Additional Information                       | Nominal Value               | Unit | Test Method |

CURE SCHEDULE : 24 hours at 77°F (25°C) or gel at 77°F (25°C), plus 1 hour at 150°F (66°C).

#### NOTE

1. Resin
2. System
3. Hardener
4. System
5. Resin
6. System
7. Hardener
8. Resin
9. on immersion - 24 hrs
10. Hardener

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