

## EPOCAST® 1629 A/B Epoxy Syntactic

### Product Description

EPOCAST® 1629 A/B Epoxy Syntactic is a beige, flame-retardant, ultra-low-density system for edge reinforcing of honeycomb structures. It can be spread with a putty knife and resists slumping on vertical surfaces. EPOCAST® 1629 A/B can be easily sanded and machined once cured. It is a non-PBDE containing material and can be used as a replacement for EPOCAST® 87005 A/B-80 Epoxy Syntactic, EPOCAST® 87005 A/B-60 Epoxy Syntactic, EPOCAST® 87269 A/B Epoxy Syntactic, EPOCAST® 87005 A/B-61 Epoxy Syntactic, and EPOCAST® 87005 A/BE- 60 Epoxy Syntactic.

### Features

- Ultra-low density syntactic
- Flame retardant
- Soft Paste Consistency

### Typical Properties\*

| Property                   | Test Method | 1629 A Resin | 1629 B Hardener | Mixed System |
|----------------------------|-------------|--------------|-----------------|--------------|
| Appearance                 | Visual      | White        | Peach           | Beige        |
| Density, g/cm <sup>3</sup> | ASTM D1622  | 0.52         | 0.42            | 0.48         |
| Viscosity at 77°F (25°C)   | ASTM D2196  | Paste        | Paste           | Paste        |

\*Typical properties are based on Huntsman's test methods. Copies are available upon request.

### Processing Data

#### Mix Ratio

| Product                  | Parts by weight |
|--------------------------|-----------------|
| EPOCAST® 1629 A resin    | 100             |
| EPOCAST® 1629 B hardener | 50              |

Mix both components thoroughly for several minutes to assure complete blending. Resin/filler separation may occur. Remix before use. Material temperatures should be above 18°C (65°F) when mixing.

### Processing Data

| Parameter                          | Value                               |
|------------------------------------|-------------------------------------|
| Gel time, 75 g at 77°F (25°C), min | 70                                  |
| Typical Cure Cycles                | 48 hours at 77°F (25°C) or          |
|                                    | Gel at RT + 5 hours at 125°F (52°C) |

### Typical Physical Properties

Unless otherwise stated, the data were determined with typical production batches using standard test methods. They are typical values only, and do not constitute a product specification.

| Property                                                                                                                                            | Test Method | Value                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------|
| Tensile lap shear strength, Al-Al, psi (MPa)<br>at 77°F (25°C)                                                                                      | ASTM D1002  | 1100 (7.6)               |
| Compressive strength, psi (MPa)<br>at 77°F (25°C)<br>at 180°F (82°C)                                                                                | ASTM D695   | 3000 (20.6)<br>430 (3.0) |
| Compressive modulus, kpsi (GPa)<br>at 77°F (25°C)                                                                                                   | ASTM D695   | 200 (1.4)                |
| Flammability, 12-second vertical<br>Extinguish Time, sec<br>Burn Length, in (cm)<br>Drip Ext. time                                                  | FAR 25.853  | 2<br>1 (25.4)<br>0       |
| Water absorption, after 24 hours at 25°C, % wt.<br>Mil-S-3136, Type III test fluid<br>Mil-H-5606 hydraulic fluid<br>Skydrol 500A<br>Distilled water | ASTM D543   | 0.6<br>1.5<br>3.0<br>2.3 |

### Storage

**EPOCAST® 1629 A/B Epoxy Syntactic** should be stored in a dry place, in the original sealed container at temperatures between **2°C and 40°C (35.6°F and 104°F)**. Tightly reseal containers after each use. Under these storage conditions, and when supplied under Huntsman standard certification, the product has a shelf-life of **6 months** from date of shipment (expiration date may differ based on customer specification). The product should not be exposed to direct sunlight.

### Precautionary Statement

Huntsman Advanced Materials Americas LLC maintains up-to-date Safety Data Sheets (SDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

#### First Aid!

Refer to SDS as mentioned above.

**KEEP OUT OF REACH OF CHILDREN**

**FOR PROFESSIONAL AND INDUSTRIAL USE ONLY**

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