

**Advanced Materials****Epocast<sup>®</sup> 1610-A1**

## EPOXY SYNTACTIC

- Very Low Density
- One Component
- Qualified to BMS 5-28 Type 10

**DESCRIPTION :**

Epocast<sup>®</sup> 1610-A1 epoxy syntactic is a very low density, self extinguishing, one-part compound with a long storage life at room temperature. It can be co-cured with composites in 90 minutes at 250°F (121°C). Epocast<sup>®</sup> 1610-A1 epoxy syntactic is well suited for replacing pre-cured foam or wood blocks in honeycomb panels. After curing under vacuum pressure, the lightweight epoxy produces high-strength areas for insert potting with no mark off. Epocast<sup>®</sup> 1610-A1 epoxy syntactic cures to an off-white color and is qualified to BMS 5-28, Type 10.

**TYPICAL PROPERTIES AS RECEIVED :**

<u>Property</u>	<u>Result</u>	<u>Test Method</u>
Color	Off-white	Visual
Density, g/cc	0.50	ASTM-D-1622
Viscosity, cP at 77°F (25°C)	Non flow paste	--
Work life at 77°F (25°C), days	30	ASTM-D-1338

**CURE SCHEDULE :**

Raise temperature 5-7°F (3-4°C) per minute from room temperature to 260°F (127°C), then cure one hour at 260°F (127°C). Cool under vacuum to 150°F (66°C) before removing part.

**TYPICAL CURED PROPERTIES (Not for specification purposes)**

<u>Property</u>	<u>Result</u>	<u>Test Method</u>
Compressive strength at 77°F (25°C), psi (MPa)	2,400 (16.5)	ASTM-D-695
Flammability, vertical	Self-extinguishing	--
Tensile shear strength @ 77°F (25°C), psi (MPa)	750 (5.2)	ASTM-D-1002
Weight gain after 24 hours water Immersion at R.T., %	4.0	ASTM-D-543

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**STORAGE:**

Epocast<sup>®</sup> 1610-A1 should be stored in a dry place, in the sealed original container, at temperatures between +2°C and +8°C (+35.6°F and 46.4°F). The product should not be exposed to direct sunlight. Under these storage conditions, and when supplied under Huntsman standard certification, this product has a shelf life of 6 months (expiration date may differ based on customer specification).

Material temperatures should be above 18°C (65°F) when mixing. After use, tightly reseal containers.

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**PRECAUTIONARY STATEMENT**

Huntsman Advanced Materials Americas LLC maintains up-to-date Material Safety Data Sheets (MSDS) 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 MSDS as mentioned above.

**KEEP OUT OF REACH OF CHILDREN****FOR PROFESSIONAL AND INDUSTRIAL USE ONLY**

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