

Advanced Materials**Epocast[®] 1670-A/B****EPOXY SYNTACTIC**

- Self Extinguishing
- Soft Paste, Non-Sagging
- One-Hour Work Life

DESCRIPTION :

Epocast[®] 1670-A/B epoxy syntactic is a low-density, high-strength compound for edge sealing honeycomb structures. The epoxy syntactic is easy to handle and exhibits good flame resistance to meet the requirements of FAR 25.853B.

TYPICAL PROPERTIES AS RECEIVED :

<u>Property</u>	<u>1670-A Resin</u>	<u>1670-B Hardener</u>	<u>1670-A/B System</u>	<u>Test Method</u>
Color	Off-White	Amber	Off-White	Visual
Density, g/cc.	0.61	0.96	0.70	ASTM-1622
Viscosity, cP at 77°F (25°C)	Semi-Paste	50,000	Paste	ASTM-D-2196
Gel time, 100 gms at 77°F (25°C), minutes	--	--	60-90	ASTM-D-2471

MIX RATIO :

To 100 parts by weight of Epocast[®] 1670-A resin, add 20 parts by weight of Epocast[®] 1670-B hardener. Mix both components thoroughly for several minutes to assure complete blending. If Epocast[®] 1670-A resin separates during storage, stir thoroughly before adding Epocast[®] 1670-B hardener.

CURE SCHEDULE :

48 hours at 77°F (25°C) or gel at room temperature plus five hours at 125°F (52°C).

TYPICAL CURED PROPERTIES (Not for specification purposes)

Test	Result	Test Method
Compressive strength, at 77°F (25°C), psi (MPa)	6,500 (44.8)	ASTM-D-695
Compressive modulus at 77°F (25°C), Ksi (MPa)	250 (1,725)	ASTM-D-695
Tensile lap shear, chromic acid etched aluminum, at 77°F (25°C), psi (MPa)	1,000 (7)	ASTM-D-1002
Weight change, 24 hours immersion at 77°F (25°C), %		ASTM-D-543
Mil-S-3136, Type III test fluid	+0.1	
Mil-M-5606 hydraulic fluid	+1.0	
Skydrol 500A	+1.5	
Distilled water	+2.5	
Flammability, 60 second ignition, self-extinguishing, seconds	<5.0	FAR 25.853B
burn length, inches	<4.0	
Heat Release (neat material only)	73/45	O.S.U.
Smoke Density (neat material only) D ₈	147	N.B.S.

STORAGE:

Epocast[®] 1670-A/B should be stored in a dry place, in the sealed original container, at temperatures between +2°C and +40°C (+35.6°F and 104°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 1 year (expiration date may differ based on customer specification).

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

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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