

# Epocast 167 A/B

Epoxy; Epoxide

Huntsman Advanced Materials

## Message:

DESCRIPTION: Epocast® 167-A/B epoxy syntactic is a low-density, white, two-part system designed for insert potting and edge trim bonding in light weight honeycomb applications requiring a pourable, room-temperature curable material. Epocast® 167-A/B epoxy syntactic is qualified to BMS 5-28, Type 1.

General Information			
Features	Low density		
	Moisture resistance		
Uses	Edge closure		
	Bonding		
Appearance	Amber		
	White-like		
Processing Method	potting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D1622
-- <sup>1</sup>	0.600	g/cm <sup>3</sup>	ASTM D1622
-- <sup>2</sup>	0.700	g/cm <sup>3</sup>	ASTM D1622
-- <sup>3</sup>	1.00	g/cm <sup>3</sup>	ASTM D1622
Mechanical	Nominal Value	Unit	Test Method
Compressive Modulus	2070	MPa	ASTM D695
Compressive Strength (25°C)	41.4	MPa	ASTM D695
Thermal	Nominal Value	Unit	
Glass Transition Temperature <sup>4</sup>	60.0	°C	
Flammability	Nominal Value		
Flammability	Self-extinguishing		
Gel Time - 50 gms (25°C)	0.8 - 1.2	hr	ASTM D2471
Tensile Lap Shear - chromic acid etched aluminum (25°C)	10.3	MPa	ASTM D1002
Weight Gain <sup>5</sup>			ASTM D543
Distilled water : 25°C	1.0	%	ASTM D543
Mil-M-5606, hydraulic fluid : 25°C	1.5	%	ASTM D543
Skydrol 500-A : 25°C	3.5	%	ASTM D543
TT-S-735, Type III test fluid : 25°C	1.0	%	ASTM D543
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			

Resin	Mixing ratio by weight: 100		
Hardening method	Mixing ratio by weight: 15		
Thermoset Mix Viscosity	ASTM D2196		
25°C <sup>6</sup>	20000	cP	ASTM D2196
25°C <sup>7</sup>	45000	cP	ASTM D2196
25°C <sup>8</sup>	800	cP	ASTM D2196
Additional Information	Nominal Value	Unit	Test Method

CURE SCHEDULE: 24 hours at 77°F (25°C) or gel at room temperature plus 5 hours at 125°F (52°C).

#### NOTE

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

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