

# Epocast 1629 A/B

Epoxy; Epoxide

Huntsman Advanced Materials

## Message:

DESCRIPTION: Epocast® 1629-A/B epoxy syntactic is a beige-tan, self-extinguishing, ultra-low density system for edge reinforcing of honeycomb structures. It can be extruded or spread with a putty knife and resists slumping on vertical surfaces. Epocast® 1629-A/B epoxy syntactic sands and machines easily when 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.

General Information			
Features	Low density		
	Self-extinguishing		
Uses	Components		
	Aerospace applications		
Appearance	White		
	brownish yellow		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D1622
-- <sup>1</sup>	0.420	g/cm <sup>3</sup>	ASTM D1622
-- <sup>2</sup>	0.480	g/cm <sup>3</sup>	ASTM D1622
-- <sup>3</sup>	0.520	g/cm <sup>3</sup>	ASTM D1622
Viscosity			ASTM D2196
-- <sup>4</sup>	Paste		ASTM D2196
-- <sup>5</sup>	Paste		ASTM D2196
-- <sup>6</sup>	Paste		ASTM D2196
Flammability <sup>7</sup>			
Burn Length	2.54	cm	
self-extinguishing	2.0	sec	
Gel Time - 75 gms (25°C)	1.2	hr	ASTM D2471
Cure Time (25°C)	2.0	day	
Tensile Lap Shear - etched al/al (25°C)	7.58	MPa	ASTM D1002
Weight Gain <sup>8</sup>			ASTM D543
Distilled water : 25°C	2.3	%	ASTM D543
Mil-M-5606, hydraulic fluid : 25°C	1.5	%	ASTM D543
Mil-S-3136, Type III test fluid : 25°C	0.60	%	ASTM D543
Skydrol 500-A : 25°C	3.0	%	ASTM D543

Mechanical	Nominal Value	Unit	Test Method
Compressive Modulus	1380	MPa	ASTM D695
Compressive Strength (25°C)	20.7	MPa	ASTM D695
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Resin	Mixing ratio by weight: 100		
Hardening method	Mixing ratio by weight: 50		
Additional Information	Nominal Value	Unit	Test Method
CURE SCHEDULE: 48 hours at 77°F (25°C), or gel at room temperature plus 5 hours at 125°F (52°C).			
NOTE			
1.	Hardener		
2.	System		
3.	Resin		
4.	Resin		
5.	Hardener		
6.	System		
7.	12-second vertical		
8.	on immersion - 24 hrs		

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#### Recommended distributors for this material

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