

Epocast 1652-A/B

Epoxy; Epoxide

Huntsman Advanced Materials

Message:

DESCRIPTION: Epocast ® 1652-A/B epoxy syntactic is a low-density system with good elevated temperature performance after a room-temperature cure. The epoxy syntactic is suitable for core filling metal skins, adding stiffness and strength to fabricated parts such as helicopter rotor blades, core splicing, and strengthening radii and corners of reinforced plastic structures. Epocast ® 1652-A/B epoxy syntactic is qualified to Grumman GM 4006, Gulfstream GMS 4005 and Sikorsky 9587, Type 2.

General Information			
Features	Low density		
	Rigid, good		
	High strength		
	Good compressive strength		
	Heat resistance, high		
Appearance	Amber		
	brownish yellow		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.798	g/cm ³	ASTM D1622
-- ¹	0.998	g/cm ³	ASTM D1622
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength			ASTM D695
25°C ²	62.1	MPa	ASTM D695
2% strain, 177°C	4.48	MPa	ASTM D695
2% strain, 25°C	55.2	MPa	ASTM D695
2% strain, 82°C	27.6	MPa	ASTM D695
2% strain, -55°C	65.5	MPa	ASTM D695
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Resin	Mixing ratio by weight: 100		
Hardening method	Mixing ratio by weight: 12		
Shelf Life (25°C)	52	wk	
Thermoset Mix Viscosity ³ (25°C)	500	cP	ASTM D2196
Gel Time - System (25°C) ⁴	30.0 - 60.0	min	ASTM D2471
Thermoset Mix Viscosity			ASTM D2196
25°C	Semi-paste		ASTM D2196
Resin : 25°C	Paste		ASTM D2196

Cure Time (25°C)	7.0	day	
Tensile Lap Shear - Etched AL/AL (25°C)	4.83	MPa	ASTM D1002
Additional Information	Nominal Value	Unit	Test Method

CURE SCHEDULE: Seven days at 77°F (25°C), or gel at 77°F (25°C) followed by 2-3 hours at 150°F (66°C).

NOTE			
1.	Hardener		
2.	Break		
3.	Hardener		
4.	100 gms		

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