

Epocast 52-A/B

Epoxy; Epoxide

Huntsman Advanced Materials

Message:

DESCRIPTION : Epocast® 52-A/B epoxy laminating system is a two-part material formulated for service up to 350°F (177°C). Well suited for fabrication and repair of graphite composites, the laminating system combines low temperature vacuum bag curing capability with good hot-wet strength. Epocast® 52-A/B epoxy laminating system is qualified to specifications including: BMS 8-301, Class 1, Grade 2; AIMS 08-01-002-01; and AIMS 08-02-002-01.

General Information			
Features	Low Viscosity		
	Rapid Wetting		
Uses	Laminates		
Appearance	Amber		
	Blue		
Forms	Liquid		
Processing Method	Laminating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- ¹	1.00	g/cm ³	
--	1.10	g/cm ³	
-- ²	1.20	g/cm ³	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
-54°C ³	186	MPa	
-54°C ⁴	193	MPa	
71°C ⁵	124	MPa	
71°C ⁶	117	MPa	
Shear Strength			ASTM D732
-54°C ⁷	72.4	MPa	
-54°C ⁸	66.9	MPa	
25°C ⁹	59.3	MPa	
25°C ¹⁰	53.1	MPa	
25°C ¹¹	53.1	MPa	
80°C ¹²	51.0	MPa	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature			ASTM E1356
-- ¹³	128	°C	
-- ¹⁴	154	°C	
Maximum Service Temperature	177	°C	

Gel Time (25°C) ¹⁵	3.5 to 5.5	hr	ASTM D2471
Cure Time			
66°C	3.0	hr	
93°C	2.0	hr	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 41		
Resin	Mix Ratio by Weight: 100		
Shelf Life	52	wk	
Thermoset Mix Viscosity			ASTM D2196
25°C	5500	cP	
25°C ¹⁶	1500	cP	
25°C ¹⁷	14000	cP	
NOTE			
1.	Hardener		
2.	Resin		
3.	200°F Cure		
4.	150°F Cure		
5.	200°F Cure, Wet		
6.	150°F Cure, Wet		
7.	200°F Cure, Compression Interlaminar		
8.	150°F Cure, Compression Interlaminar		
9.	200°F Cure, Compression Interlaminar		
10.	150°F Cure, Compression Interlaminar		
11.	Short Beam		
12.	Wet, Short Beam		
13.	Cure 3 hrs at 150°F		
14.	Cure 3 hrs at 150°F plus 1 hr at 350°F		
15.	100 gms		
16.	Hardener		
17.	Resin		

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