

Epocast 50-A1/9816

Epoxy; Epoxide

Huntsman Advanced Materials

Message:

DESCRIPTION: Epocast ® 50-A1 Resin/Hardener 9816 epoxy laminating system is an unfilled, solvent-free, easy-to-handle material for the manufacture or repair of composite structures as well as for filament winding. Epocast® 50-A1 resin/Hardener 9816 epoxy laminating system is self extinguishing. Epocast ® 50-A1 / Hardener 9816 is qualified to BMS 8-201, Type III, Rev. F. This product is also available in a shorter work life version - Epocast ® 50-A1 resin/Hardener 946 epoxy laminating system.

General Information			
Features	High strength		
	Self-extinguishing		
Uses	Laminate		
	Filament		
Appearance	Amber		
	Wheat straw color		
Forms	Liquid		
Processing Method	Lamination method		
	Filament power winding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- 1	1.05	g/cm ³	ASTM D792
--	1.18	g/cm ³	ASTM D792
-- 2	1.21	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Compressive Modulus			ASTM D695
-- 3	21.6	MPa	ASTM D695
-- 4	24.3	MPa	ASTM D695
-- 5	28.7	MPa	ASTM D695
Compressive Strength			ASTM D695
-- 6	338	MPa	ASTM D695
-- 7	319	MPa	ASTM D695
-- 8	316	MPa	ASTM D695
Flammability	Nominal Value	Unit	Test Method
Flammability			FAR 25.853(a)
burn length		mm	FAR 25.853(a)
drip extinguishing time	0.0	hr	FAR 25.853(a)

self extinguishing time	0.0	hr	FAR 25.853(a)
Gel Time - System (25°C) ⁹	1.1	hr	ASTM D2471
Cure Time (25°C)	5.0	day	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Resin	Mixing ratio by weight: 100		
Hardening method	Mixing ratio by weight: 14		
Shelf Life (25°C)	52	wk	
Thermoset Mix Viscosity			ASTM D2196
25°C	2400	cP	ASTM D2196
25°C ¹⁰	250	cP	ASTM D2196
25°C ¹¹	7770	cP	ASTM D2196
Additional Information	Nominal Value	Unit	Test Method

CURE SCHEDULE: Five days at 77°F (25°C) or two hours at 170-200°F (77-93°C) after room temperature gel. Handling and machining may be done after 16-24 hours at room temperature.

NOTE

1. Hardener
2. Resin
3. Cure 27 days at 77°F
4. Cure 7 days at 77°F
5. Cure 1 day at 77°F + 2 hr. at 150°F
6. Cure 27 days at 77°F
7. Cure 1 day at 77°F + 2 hr. at 150°F
8. Cure 7 days at 77°F
9. 100 gms
10. Hardener
11. Resin

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