

# Epocast 54 A/B

Epoxy; Epoxide

Huntsman Advanced Materials

## Message:

DESCRIPTION: Epocast® 54-A/B epoxy laminating system is an unfilled, solvent-free, easy-to-handle product. It is self extinguishing and well suited for the manufacture and repair of composite structures. In addition to laminating applications, the epoxy system can be used for filament winding. Epocast® 54-A/B epoxy laminating system is qualified to AIMS 04-27-000-01.

General Information			
Features	High strength		
	Self-extinguishing		
Uses	Components		
	Aerospace applications		
	Filament		
Appearance	Amber		
	Yellow		
Processing Method	Lamination method		
	Filament power winding		
Physical	Nominal Value	Unit	Test Method
Density			ASTM D792
-- <sup>1</sup>	1.05	g/cm <sup>3</sup>	ASTM D792
-- <sup>2</sup>	1.19	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Compressive Modulus <sup>3</sup>	23400	MPa	ASTM D695
Compressive Strength <sup>4</sup> (25°C)	338	MPa	ASTM D695
Flammability	Nominal Value	Unit	Test Method
Flammability <sup>5</sup>			FAR 25.853(a)
Burn Length	8.89	cm	FAR 25.853(a)
Drip Extinguish Time	0.0	hr	FAR 25.853(a)
Self Extinguish Time	0.0	hr	FAR 25.853(a)
Gel Time - 100 gms (25°C)	15.0 - 25.0	min	ASTM D2471
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>	8000	cP	ASTM D2196

25°C <sup>7</sup>	400	cP	ASTM D2196
25°C <sup>8</sup>	9000	cP	ASTM D2196

#### Additional Information

CURE SCHEDULE: Five days at 77°F (25°C) or two hours at 150-200°F (66-93°C) after room temperature gel. The system can be handled and machined after 24 hours at room temperature.

#### NOTE

1.	Hardener
2.	Resin
3.	12-ply 7781 glass cloth
4.	12-ply 7781 glass cloth
5.	2-ply 7781 glass cloth, 60 sec., vertical
6.	System
7.	Hardener
8.	Resin

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