

# Epocast 169A-1 / Hardener 9646

Epoxy; Epoxide

Huntsman Advanced Materials

## Message:

DESCRIPTION: Epocast® 169A-1 resin with 9646 Hardener epoxy syntactic is a low-density foam which cures at room temperature to a carvable, woodlike product. The epoxy syntactic has good dimensional stability under changing humidity conditions and is pourable for easier application as a core fill and honeycomb reinforcement. Epocast® 169A-1 resin can also be used with 9646-A Hardener at the same mix ratio, to produce a non-flow paste consistency.

General Information			
Features	Good dimensional stability		
	Low density		
	Machinable		
Uses	Foam		
	Fill application		
Appearance	Brown		
	Amber		

Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D1622
-- <sup>1</sup>	0.560	g/cm <sup>3</sup>	ASTM D1622
-- <sup>2</sup>	0.700	g/cm <sup>3</sup>	ASTM D1622
-- <sup>3</sup>	0.960	g/cm <sup>3</sup>	ASTM D1622
Viscosity			ASTM D2196
25°C <sup>4</sup>	Paste		ASTM D2196
25°C <sup>5</sup>	Pourable		ASTM D2196
Gel Time - 50 gms (25°C) <sup>6</sup>	30.0 - 50.0	min	ASTM D2471
Tensile Lap Shear - AL/AL	15.4	MPa	ASTM D1002

Mechanical	Nominal Value	Unit	Test Method
Compressive Modulus	593	MPa	ASTM D695
Compressive Strength			ASTM D695
25°C <sup>7</sup>	51.7	MPa	ASTM D695
25°C <sup>8</sup>	18.6	MPa	ASTM D695

Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Resin	Mixing ratio by weight: 100		
Hardening method	Mixing ratio by weight: 35		
Thermoset Mix Viscosity <sup>9</sup> (25°C)	350	cP	ASTM D2196

Additional Information	Nominal Value	Unit	Test Method
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CURE SCHEDULE: 24 hours at 75°F ± 5°F (24°C ± 2°C), or room temperature gel plus 2 hours at 150°F ± 10°F (66°C ± 5°C).

#### NOTE

1.	Resin
2.	System
3.	Hardener
4.	Resin
5.	System
6.	System
7.	Ultimate
8.	Yield
9.	Hardener

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

