

Epocast 8623-A/Hardener 9861

Epoxy; Epoxide

Huntsman Advanced Materials

Message:

DESCRIPTION: Epocast® 8623-A resin/Hardener 9861 epoxy syntactic is a two-part, core-filling compound with a soft paste consistency for easy extrusion through a 1/8-in. (3mm) nozzle. Epocast® 8623-A resin/Hardener 9861 epoxy syntactic is self-extinguishing and cures at room temperature, if desired. Elevated temperature cure or post cure will improve elevated temperature properties.

General Information	
Features	Low density
	Self-extinguishing
Appearance	White
	Amber
	White-like
Processing Method	potting
	Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- ¹	0.650	g/cm ³	ASTM D792
-- ²	0.700	g/cm ³	ASTM D792
-- ³	1.05	g/cm ³	ASTM D792
Solids Content ⁴	100	%	ASTM D1644
Viscosity			ASTM D2393
-- ⁵	Paste		ASTM D2393
-- ⁶	Soft-paste		ASTM D2393
flammability-self extinguishing time		sec	BMS 5-28
Gel Time - 100 gms (25°C)	40.0 - 60.0	min	ASTM D2471
Cure Time (25°C)	1.0	day	
Extrudability - 1/8 inch nozzle at 80 psi ⁷	30.0	g/min	
Tensile Lap Shear - etched al/al (25°C)	11.0	MPa	ASTM D1002
Weight Gain ⁸			ASTM D570
Distilled water	1.5	%	ASTM D570
Mil-M-5606, hydraulic fluid	0.40	%	ASTM D570
Mil-S-3136, Type III test fluid : 25°C	0.30	%	ASTM D570
Skydrol 500-A	0.60	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Compressive Modulus	1720	MPa	ASTM D695
Compressive Strength (25°C)	34.5	MPa	ASTM D695

Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Resin	Mixing ratio by weight: 100		
Hardening method	Mixing ratio by weight: 20		
Thermoset Mix Viscosity ⁹ (25°C)	18000	cP	ASTM D2393
Additional Information	Nominal Value	Unit	Test Method

CURE SCHEDULE: 24 hours at 77°F (25°C), or gel at 77°F (25°C), plus 1 hour at 180-200°F (83-93°C).

NOTE

- | | |
|----|-----------------------|
| 1. | Resin |
| 2. | System |
| 3. | Hardener |
| 4. | System |
| 5. | Resin |
| 6. | System |
| 7. | System |
| 8. | on immersion - 24 hrs |
| 9. | Hardener |

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