Epocast 1619-A/B

Epoxy; Epoxide

Huntsman Advanced Materials

Message:

DESCRIPTION: Epocast ® 1619-A/B epoxy syntactic is a low-density, self-extinguishing compound for potting fasteners in honeycomb structures. The lightweight epoxy can be poured or extruded through a 1/8 in. (3mm) nozzle orifice. Epocast ® 1619-A/B epoxy syntactic is resistant to water, fungus and most aircraft fluids and is qualified to BMS 5- 28, Type 19.

General Information	
Features	Low density Moisture resistance Antibacterial property Self-extinguishing
Appearance	Amber White-like
Forms	Liquid
Processing Method	potting Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D1622
-- [1]	0.599	g/cm³	ASTM D1622
--	0.698	g/cm³	ASTM D1622
-- [2]	0.998	g/cm³	ASTM D1622
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Compressive Modulus	2410	MPa	ASTM D695
Compressive Strength (25°C)	37.9	MPa	ASTM D695
Flammability	**Nominal Value**		
Flammability	Self Extinguishing		
Gel Time (25°C) [3]	20.0 - 50.0	min	ASTM D2471
Thermoset Mix Viscosity			ASTM D2196
25°C	Semi-Paste		ASTM D2196
25°C [4]	Semi-Paste		ASTM D2196
Extrudability (3.18 mm)	350	g/min	
Tensile Lap Shear - AL/AL	8.62	MPa	ASTM D1002
Weight Gain [5]			ASTM D543
Distilled Water : 25°C	1.5	%	ASTM D543

Mil-M-5606 hydraulic fluid	0.40	%	ASTM D543
Skydol 500-A : 25°C	0.60	%	ASTM D543
TT-S-735, Type III test fluid : 25°C	0.30	%	ASTM D543

Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Resin	Mixing ratio by weight: 100		
Hardening method	Mixing ratio by weight: 25		
Shelf Life	26	wk	
Thermoset Mix Viscosity [6] (25°C)	400	cP	ASTM D2196

Additional Information	Nominal Value	Unit	Test Method
CURE SCHEDULE: Seven days at 77°F (25°C), or gel at room temperature plus five hours at 125°F (52°C).			

NOTE	
1.	Resin
2.	Hardener
3.	50 gms
4.	Resin
5.	24 hrs
6.	Hardener

Recommended distributors for this material

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