Epocast 89537-A/B

Epoxy; Epoxide

Huntsman Advanced Materials

Message:

DESCRIPTION: Epocast® 89537-A/B epoxy syntactic is a two-part system with glass-fiber reinforcement that can be trowelled or extruded into honeycomb core structures for fastener and attachment potting, core splicing and edge reinforcing. The syntactic has a non-sag consistency that allows for vertical application up to 1/2-inch (1 .25cm) thick. Epocast® 89537-A/B epoxy syntactic is self-extinguishing and meets the requirements of BMS 5-28 Type 7, Class 2.

General Information	
Filler / Reinforcement	Glass fiber reinforced material
Features	Low density Self-extinguishing
Uses	Fasteners Fill application
Appearance	White Black Grey
Processing Method	Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
-- [1]	0.850	g/cm³	ASTM D792
-- [2]	0.900	g/cm³	ASTM D792
-- [3]	1.00	g/cm³	ASTM D792
Viscosity			ASTM D2196
-- [4]	Soft-paste		ASTM D2196
-- [5]	Paste		ASTM D2196
flammability-burn rate		mm/min	BMS 5-28
Gel Time - 100 gms (25°C)	1.2	hr	ASTM D2471
Cure Time (25°C)	7.0	day	
Tensile Lap Shear - AL/AL			ASTM D1002
-- [6]	8.27	MPa	ASTM D1002
-- [7]	12.4	MPa	ASTM D1002
-- [8]	1900	%	ASTM D1002
Weight Gain [9]			ASTM D543
Distilled water	0.30	%	ASTM D543
Mil-M-5606, hydraulic fluid	0.37	%	ASTM D543

Monsanto Low Density Hydraulic Test Fluid	0.48	%	ASTM D543
TT-S-735 Test Fluid	0.40	%	ASTM D543
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Compressive Modulus			
-- [10]	3000	MPa	ASTM D695
-- [11]	3100	MPa	ASTM D695
Compressive Strength			ASTM D695
-- [12]	60.7	MPa	ASTM D695
-- [13]	59.3	MPa	ASTM D695
-- [14]	58.6	MPa	ASTM D695
Thermoset	**Nominal Value**	**Unit**	**Test Method**
Thermoset Components			
Resin	Mixing ratio by weight: 100		
Hardening method	Mixing ratio by weight: 19		
Thermoset Mix Viscosity [15] (25°C)	10000	cP	ASTM D2196
Additional Information	**Nominal Value**	**Unit**	**Test Method**
CURE SCHEDULE:Cure #1 - 7 Days @ 77°FCure # 2 - Gel @ Room Temperature + 90 minutes @ 260°FCure # 3 - Gel @ Room Temperature + 60 minutes @ 350°F			
NOTE			
1.	Resin		
2.	System		
3.	Hardener		
4.	System		
5.	Resin		
6.	After Cure #1		
7.	After Cure #2		
8.	After Cure #3		
9.	on immersion - 24 hrs		
10.	After Cure #3		
11.	After Cure #1		
12.	After Cure #3		
13.	After Cure #2		
14.	After Cure #1		
15.	Hardener		

Recommended distributors for this material

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