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	сР	ASTM D2196		
Additional Information	Nominal Value	Unit	Test Method		
Additional Information CURE SCHEDULE:Cure #1 - 7 Days @ 77 @ 350°F	Nominal Value	Unit			
Additional Information CURE SCHEDULE:Cure #1 - 7 Days @ 77 @ 350°F NOTE	Nominal Value °FCure # 2 - Gel @ Room Tempera	Unit	Test Method		
Additional Information CURE SCHEDULE:Cure #1 - 7 Days @ 77 @ 350°F NOTE 1.	Nominal Value °FCure # 2 - Gel @ Room Tempera Resin	Unit	Test Method		
Additional Information CURE SCHEDULE:Cure #1 - 7 Days @ 77 @ 350°F NOTE 1.	Nominal Value °FCure # 2 - Gel @ Room Tempera Resin System	Unit	Test Method		
Additional Information CURE SCHEDULE:Cure #1 - 7 Days @ 77 @ 350°F NOTE 1. 2. 3.	Nominal Value °FCure # 2 - Gel @ Room Tempera Resin System Hardener	Unit	Test Method		
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Additional Information CURE SCHEDULE:Cure #1 - 7 Days @ 77 @ 350°F NOTE 1. 2. 3. 4. 5.	Nominal Value °FCure # 2 - Gel @ Room Tempera Resin System Hardener System Resin	Unit	Test Method		
Additional Information CURE SCHEDULE:Cure #1 - 7 Days @ 77 @ 350°F NOTE 1. 2. 3. 4. 5.	Nominal Value °FCure # 2 - Gel @ Room Tempera Resin System Hardener System Resin After Cure #1	Unit	Test Method		
Additional Information CURE SCHEDULE:Cure #1 - 7 Days @ 77 @ 350°F NOTE 1. 2. 3. 4. 5. 6. 7.	Nominal Value °FCure # 2 - Gel @ Room Tempera Resin System Hardener System Resin After Cure #1 After Cure #2	Unit	Test Method		
Additional Information CURE SCHEDULE:Cure #1 - 7 Days @ 77 @ 350°F NOTE 1. 2. 3. 4. 5. 6. 7.	Nominal Value °FCure # 2 - Gel @ Room Tempera Resin System Hardener System Resin After Cure #1 After Cure #2 After Cure #3	Unit	Test Method		
Additional Information CURE SCHEDULE:Cure #1 - 7 Days @ 77 @ 350°F NOTE 1. 2. 3. 4. 5. 6. 7. 8.	Nominal Value °FCure # 2 - Gel @ Room Tempera Resin System Hardener System Resin After Cure #1 After Cure #2 After Cure #3 on immersion - 24 hrs	Unit	Test Method		
Additional Information CURE SCHEDULE:Cure #1 - 7 Days @ 77 @ 350°F NOTE 1. 2. 3. 4. 5. 6. 7. 8. 9.	Nominal Value °FCure # 2 - Gel @ Room Tempera Resin System Hardener System Resin After Cure #1 After Cure #2 After Cure #3 on immersion - 24 hrs After Cure #3	Unit	Test Method		
Additional Information CURE SCHEDULE:Cure #1 - 7 Days @ 77 @ 350°F NOTE 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Nominal Value *FCure # 2 - Gel @ Room Tempera Resin System Hardener System Resin After Cure #1 After Cure #2 After Cure #3 on immersion - 24 hrs After Cure #3 After Cure #3 After Cure #3	Unit	Test Method		

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