Epocast 1627-2

Epoxy; Epoxide

Huntsman Advanced Materials

Message:

DESCRIPTION: Epocast® 1627-2 epoxy syntactic is a filled, high-performance, structural core-reinforcing compound with an extremely low coefficient of thermal expansion, making the material suitable for use in fabricating and reinforcing composite structures. The epoxy syntactic is supplied ready to use (after thawing) as a gray-colored, frozen, 32- or 64-cubic inch (524 or 1,049 cm 3) patty which does not require any weighing or mixing. Epocast® 1627-2 epoxy syntactic is qualified to BMS 5-28, Type 27.

General Information			
Features	Low CLTE Good compressive strength		
Uses	Components		
Appearance	Grey		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.80	g/cm³	ASTM D1622
Shrinkage	0.20	%	ASTM D696
Extrudability (25°C)	1000	g/min	ATM 5-28
Weight Gain [1]			ASTM D543
BMS 3-11, Type IV, Class I : 25°C	0.40	%	ASTM D543
Distilled water : 25°C	0.20	%	ASTM D543
MIL-H-5606 hydraulic fluid : 25°C	0.40	%	ASTM D543
TT-3-735, Type III : 25°C	0.10	%	ASTM D543
Work Life - after thaw (25°C)	1.0	day	ASTM D1338
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Compressive Modulus			ASTM D695
-- [2]	414	MPa	ASTM D695
-- [3]	13100	MPa	ASTM D695
Compressive Strength			ASTM D695
25°C	207	MPa	ASTM D695
177°C	24.1	MPa	ASTM D695
Shear Strength			ASTM D1002
25°C	6.89	MPa	ASTM D1002
163°C	3.45	MPa	ASTM D1002
Thermal	**Nominal Value**	**Unit**	**Test Method**
CLTE - Flow	2.0E-5	cm/cm/°C	ASTM D3386
Additional Information	**Nominal Value**	**Unit**	**Test Method**
SUGGESTED CURE SCHEDULES:#1 - 1 hour at 350°F (177°C)#2 - 6 hours at 250°F (121°C)#3 - 4 days at 180°F (83°C)Each cure cycle must include 5-7°F (3-4°C) per minute heat rise from room temperature to cure temperature, holding at cure temperature for designated time, followed by 5-7°F (3-4°C) per minute heat reduction to 150°F (66°C) or below. Cure temperature refers to temperature of material as determined by thermocouple.			
NOTE			

1.	on immersion - 24 hrs
2.	at 177°C
3.	at 25°C

Recommended distributors for this material

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