INSULCAST® 3230 LV/INSULCURE 11B

Epoxy; Epoxide

ITW Polymers Coatings North America

Message:

INSULCAST 3230 LV is a low viscosity, highly filled epoxy formulation which, in addition to having excellent electrical properties, has unusually high thermal conductivity with low thermal expansion. Similar to INSULCAST 140 but lower viscosity. This system meets the NASA outgassing specifications with tolerances for TML ranging from 0.40 to 0.41% and for CVCM ranging from 0.0 to 0.1%.

General Information				
Filler / Reinforcement	Filler			
Features	Good Electrical Properties			
	Low Viscosity			
	Thermally Conductive			
Processing Method	Casting			
Hardness	Nominal Value		Test Method	
Durometer Hardness (Shore D)	92		ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength	58.6	MPa	ASTM D638	
Tensile Elongation (Break)	1.0	%	ASTM D638	
Flexural Strength	93.1	MPa	ASTM D790	
Compressive Strength	124	MPa	ASTM D695	
Thermal	Nominal Value	Unit		
CLTE - Flow	2.8E-5	cm/cm/°C		
Thermal Conductivity	1.3	W/m/K		
Heat Deflection Temperature	150	°C		
Service Temperature	155	°C		
Electrical	Nominal Value	Unit	Test Method	
Volume Resistivity	5.0E+16	ohms·cm	ASTM D257	
Dielectric Strength	20	kV/mm	ASTM D149	
Dielectric Constant (1 kHz)	6.50		ASTM D150	
Dissipation Factor (1 kHz)	0.020		ASTM D150	
Thermoset	Nominal Value	Unit	Test Method	
Thermoset Components				
Hardener	Mix Ratio by Weight: 5.0 to 7.0			
Resin	Mix Ratio by Weight: 100	Mix Ratio by Weight: 100		
Shelf Life (25°C)	52	wk		
Uncured Properties	Nominal Value	Unit	Test Method	
Color				
1	Amber			
2	Black			

0.948	g/cm³	
2.09	g/cm³	
		ASTM D2393
0.70	Pa·s	
12	Pa·s	
18	Pa·s	
2.0	hr	
4.0	hr	
24	hr	
150 to 180	min	
INSULCURE 11B		
INSULCAST 3230 LV		
INSULCURE 11B		
INSULCAST 3230 LV		
INSULCURE 11B		
Mixed		
Mixed INSULCAST 3230 LV		
	2.09 0.70 12 18 2.0 4.0 24 150 to 180 INSULCURE 11B INSULCAST 3230 LV INSULCAST 3230 LV INSULCAST 3230 LV INSULCAST 3230 LV	2.09 g/cm³ 0.70 Pa·s 12 Pa·s 18 Pa·s 2.0 hr 4.0 hr 24 hr 150 to 180 min INSULCURE 11B INSULCAST 3230 LV INSULCURE 11B INSULCAST 3230 LV INSULCURE 11B

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