

INSULCAST® 136/INSULCURE 9

Epoxy; Epoxide

ITW Polymers Coatings North America

Message:

INSULCAST 136 is an easy to use epoxy casting/potting compound exhibiting excellent adhesion to metals, ceramics and most plastics. When properly cured with INSULCURE 11B, INSULCAST 136 will conform to the requirements of MIL-I-16923, Types B, C & D, and will not support fungus growth.

General Information			
Features	General Purpose		
	Good Adhesion		
Uses	General Purpose		
Processing Method	Casting		
	Potting		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore D)	87		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	68.9	MPa	ASTM D638
Tensile Elongation (Break)	2.0 to 4.0	%	ASTM D638
Flexural Strength	107	MPa	ASTM D790
Compressive Strength	103	MPa	ASTM D695
Thermal	Nominal Value	Unit	
CLTE - Flow	4.0E-5	cm/cm/°C	
Thermal Conductivity	0.72	W/m/K	
Heat Deflection Temperature	80	°C	
Service Temperature	105	°C	
Linear Shrinkage	0.20	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.0E+16	ohms · cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	4.80		ASTM D150
Dissipation Factor (1 kHz)	0.020		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 6.0 to 7.0		
Resin	Mix Ratio by Weight: 100		
Shelf Life	52	wk	
Post Cure Time (150°C)	1.0	hr	
Uncured Properties	Nominal Value	Unit	Test Method

Color		
-- 1	Amber	
-- 2	Black	
Density		
-- 3	0.968	g/cm ³
-- 4	1.59	g/cm ³
Viscosity		ASTM D2393
-- 5	0.055	Pa·s
-- 6	30	Pa·s
-- 7	80	Pa·s
Curing Time		
65°C	1.0	hr
25°C	16 to 24	hr
Pot Life (25°C)	30	min
NOTE		
1.	INSULCURE 9	
2.	INSULCAST 136	
3.	INSULCURE 9	
4.	INSULCAST 136	
5.	INSULCURE 9	
6.	Mixed	
7.	INSULCAST 136	

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