

INSULCAST® 333/INSULCURE 11B

Epoxy; Epoxide

ITW Polymers Coatings North America

Message:

INSULCAST 333 is a moderate viscosity, self-extinguishing, epoxy potting/casting compound which conforms to the component program of Underwriters Laboratories' Flame Class 94V-O.

General Information			
Features	Medium Viscosity		
	Self Extinguishing		
Processing Method	Casting		
	Potting		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	82.7	MPa	ASTM D638
Tensile Elongation (Break)	3.8	%	ASTM D638
Flexural Strength	134	MPa	ASTM D790
Compressive Strength	100	MPa	ASTM D695
Thermal	Nominal Value	Unit	
CLTE - Flow	4.8E-5	cm/cm/°C	
Thermal Conductivity	0.61	W/m/K	
Heat Deflection Temperature	155	°C	
Service Temperature	155	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	4.50		ASTM D150
Dissipation Factor (1 kHz)	0.020		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 8.0		
Resin	Mix Ratio by Weight: 100		
Shelf Life (25°C)	52	wk	
Post Cure Time (150°C)	1.0	hr	
Uncured Properties	Nominal Value	Unit	Test Method

Color		
-- 1	Amber	
-- 2	Black	
Density		
-- 3	0.948	g/cm ³
-- 4	1.55	g/cm ³
Viscosity		ASTM D2393
25°C ⁵	0.70	Pa·s
-- 6	3.0	Pa·s
25°C ⁷	13	Pa·s
Curing Time		
100°C ⁸	2.0	hr
-- 9	4.0	hr
Pot Life ¹⁰ (25°C)	150	min

NOTE

1. INSULCURE 11B
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6. Mixed
7. INSULCAST 333
8. for masses less than 1/2 lb.
9. 2 hours at 80°C plus 2 hours at 100°C (for masses above 1/2 lb.)
10. 100 gram mass

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