

INSULCAST® 333/INSULCURE 20

Epoxy; Epoxide
ITW Polymers Coatings North America

Message:

INSULCAST 333 is a moderate viscosity, self-extinguishing, epoxy potting/casting compound which is recognized under 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	79.3	MPa	ASTM D638
Tensile Elongation (Break)	2.8	%	ASTM D638
Flexural Strength	121	MPa	ASTM D790
Compressive Strength	96.5	MPa	ASTM D695
Thermal	Nominal Value	Unit	
CLTE - Flow	4.8E-5	cm/cm/°C	
Thermal Conductivity	0.62	W/m/K	
Heat Deflection Temperature	80	°C	
Service Temperature	105	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength	16	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	4.40		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: 12 to 16		
Resin	Mix Ratio by Weight: 100		
Shelf Life (25°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			

-- 1	Amber	
-- 2	Black	
Density		
-- 3	0.978	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		
50°C	2.0	hr
25°C	8.0 to 12	hr
Pot Life ⁸ (25°C)	60	min

NOTE

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| 1. | INSULCURE 20 |
| 2. | INSULCAST 333 |
| 3. | INSULCURE 20 |
| 4. | INSULCAST 333 |
| 5. | INSULCURE 20 |
| 6. | Mixed |
| 7. | INSULCAST 333 |
| 8. | 100 gram mass |

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