

INSULCAST® 502/INSULCURE 11B

Epoxy; Epoxide
ITW Polymers Coatings North America

Message:
INSULCAST 502 is an unfilled epoxy with low viscosity for general purpose casting and impregnation, exhibiting excellent electrical and physical properties.

General Information			
Features	General Purpose		
	Good Electrical Properties		
	Low Viscosity		
Uses	General Purpose		
	Impregnation Applications		
Processing Method	Casting		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore D)	87		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	75.8	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Strength	124	MPa	ASTM D790
Compressive Strength	108	MPa	ASTM D695
Thermal	Nominal Value	Unit	
CLTE - Flow	7.5E-5	cm/cm/°C	
Thermal Conductivity	0.23	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)	4.00		ASTM D150
Dissipation Factor (1 kHz)	0.023		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 18		
Resin	Mix Ratio by Weight: 100		
Shelf Life (25°C)	52	wk	
Post Cure Time (100°C)	2.0	hr	
Uncured Properties	Nominal Value	Unit	Test Method

Color		
-- 1	Amber	
-- 2	Clear/Transparent	
Density		
-- 3	0.948	g/cm ³
-- 4	1.13	g/cm ³
Viscosity		ASTM D2393
25°C ⁵	0.30	Pa·s
25°C ⁶	0.70	Pa·s
25°C ⁷	0.70	Pa·s
Curing Time		
70°C ⁸	2.0	hr
60°C ⁹	2.0	hr
25°C ¹⁰	24	hr
Pot Life ¹¹ (25°C)	360	min

NOTE

- | | |
|-----|-------------------------|
| 1. | INSULCURE 11B |
| 2. | INSULCAST 502 |
| 3. | INSULCURE 11B |
| 4. | INSULCAST 502 |
| 5. | Mixed |
| 6. | INSULCAST 502 |
| 7. | INSULCURE 11B |
| 8. | Masses 1/2 lb. or under |
| 9. | Masses to 2 lbs. |
| 10. | Masses over 2 lbs. |
| 11. | 100 gram mass |

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