

INSULCAST® 502/INSULCURE 9

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)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	73.8	MPa	ASTM D638
Tensile Elongation (Break)	5.4	%	ASTM D638
Flexural Strength	121	MPa	ASTM D790
Compressive Strength	96.5	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	85	°C	
Service Temperature	105	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+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: 13		
Resin	Mix Ratio by Weight: 100		
Shelf Life (25°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			

-- 1	Amber	
-- 2	Clear/Transparent	
Density		
-- 3	0.968	g/cm ³
-- 4	1.13	g/cm ³
Viscosity		ASTM D2393
25°C ⁵	0.055	Pa·s
25°C ⁶	0.20	Pa·s
25°C ⁷	0.70	Pa·s
Curing Time (25°C)	4.0 to 8.0	hr
Pot Life ⁸ (25°C)	30	min

NOTE

- | | |
|----|---------------|
| 1. | INSULCURE 9 |
| 2. | INSULCAST 502 |
| 3. | INSULCURE 9 |
| 4. | INSULCAST 502 |
| 5. | INSULCURE 9 |
| 6. | Mixed |
| 7. | INSULCAST 502 |
| 8. | 100 gram mass |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

