

INSULCAST® 125/INSULCURE 11B

Epoxy; Epoxide
ITW Polymers Coatings North America

Message:

INSULCAST 125 is a low viscosity, general purpose potting and casting compound. The low viscosity enables it to be used in potting densely packed modules, thereby insuring good flow and penetration around components. INSULCAST 125 contains non-abrasive fillers and is suitable for automatic dispensing equipment.

General Information			
Filler / Reinforcement	Filler		
Features	General Purpose		
	Good Flow		
	Low Viscosity		
Uses	General Purpose		
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)	2.0	%	ASTM D638
Flexural Strength	103	MPa	ASTM D790
Compressive Strength	89.6	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	155	°C	
Service Temperature	155	°C	

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	9.0E+14	ohms · cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	4.20		ASTM D150
Dissipation Factor (1 kHz)	0.020		ASTM D150

Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Hardener	Mix Ratio by Weight: 9.0 to 10		
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		ASTM D1475
-- 3	0.948	g/cm ³
-- 4	1.55	g/cm ³
Viscosity		
-- 5	0.70	Pa·s
25°C 6	2.5	Pa·s
-- 7	7.5	Pa·s
Curing Time 8	3.0	hr
Pot Life 9 (25°C)	150	min

NOTE

- | | |
|----|--------------------------------------|
| 1. | INSULCURE 11B |
| 2. | INSULCAST 125 |
| 3. | INSULCURE 11B |
| 4. | INSULCAST 125 |
| 5. | INSULCURE 11B |
| 6. | Mixed |
| 7. | INSULCAST 125 |
| 8. | 2 hours at 80°C plus 1 hour at 150°C |
| 9. | 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

