

# INSULCAST® LN 1-05

Epoxy; Epoxide  
ITW Polymers Coatings North America

Message:

INSULCAST LN 1-05 is a non-cracking epoxy compound that was specifically designed for large potting and encapsulation applications. It displays excellent electrical properties over a wide range of temperatures. INSULCAST LN 1-05 makes use of the latest polymer and filler technology.

General Information			
Filler / Reinforcement	Filler		
Features	Good Electrical Properties		
Processing Method	Encapsulating		
	Potting		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore D)	85		ASTM D2240
Thermal	Nominal Value	Unit	
Glass Transition Temperature	72.0 to 78.0	°C	
CLTE - Flow	3.2E-5	cm/cm/°C	
Thermal Conductivity	0.65	W/m/K	
Service Temperature	105	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.0E+15	ohms · cm	ASTM D257
Dielectric Strength	16	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.00		ASTM D150
Dissipation Factor (1 kHz)	0.010		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Mix Ratio by Volume: 4.2			
Part A			
Mix Ratio by Weight: 7.2			
Mix Ratio by Volume: 1.0			
Part B			
Mix Ratio by Weight: 1.0			
Shelf Life (25°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			

-- 1	Black	
-- 2	Colorless	
Density		
-- 3	0.938	g/cm <sup>3</sup>
-- 4	1.62	g/cm <sup>3</sup>
Viscosity		ASTM D2393
25°C <sup>5</sup>	0.010	Pa·s
-- 6	5.0	Pa·s
25°C <sup>7</sup>	120	Pa·s
Curing Time		
-- 8	18	hr
25°C	36	hr
Pot Life (25°C)	480 to 600	min
NOTE		
1.	Part A	
2.	Part B	
3.	Part B	
4.	Part A	
5.	Part B	
6.	Mixed	
7.	Part A	
8.	16 hours at 25°C followed by 2 hours at 65°C	

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