

# INSULCAST® 118 FC

Epoxy; Epoxide  
ITW Polymers Coatings North America

Message:

INSULCAST 118 FC is an equal ratio by weight of volume epoxy potting/casting compound designed for dispensing equipment. INSULCAST 118 FC exhibits good impact strength and mechanical shock resistance.

General Information			
Features	Good Impact Resistance		
	Shock Resistant		
Processing Method	Casting		
	Potting		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore D)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	65.5	MPa	ASTM D638
Tensile Elongation (Break)	2.0 to 5.0	%	ASTM D638
Compressive Strength	86.2	MPa	ASTM D695
Thermal	Nominal Value	Unit	
CLTE - Flow	4.8E-5	cm/cm/°C	
Thermal Conductivity	0.65	W/m/K	
Service Temperature	105	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	16	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.70		ASTM D150
Dissipation Factor (1 kHz)	0.010		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 1.0		
Part A	Mix Ratio by Weight: 1.0		
	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	Grey		
Density			
-- 3	1.52	g/cm <sup>3</sup>	
-- 4	1.52	g/cm <sup>3</sup>	
Viscosity			ASTM D2393
-- 5	5.0	Pa·s	
-- 6	5.5	Pa·s	
-- 7	6.0	Pa·s	
Curing Time (25°C)	12 to 16	hr	
Pot Life (25°C)	60	min	

#### NOTE

- |    |        |
|----|--------|
| 1. | Part A |
| 2. | Part B |
| 3. | Part B |
| 4. | Part A |
| 5. | Part A |
| 6. | Mixed  |
| 7. | Part B |

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