

INSULCAST® 116 FR-FC

Epoxy; Epoxide
ITW Polymers Coatings North America

Message:

INSULCAST 116 FR-FC is a one to one ratio (weight or volume) epoxy potting and casting compound designed for production use. The convenient mixing ratio makes it ideal for production line mixing as well as automatic dispensing. The INSULCAST 116 FR-FC is among the safest epoxy compounds available. It appreciably reduces the risk of eye, skin or respiratory problems generally associated with the use of epoxy compounds.

General Information			
UL YellowCard	E86165-251991		
Features	Flame Retardant		
Processing Method	Casting		
	Potting		

Hardness	Nominal Value		Test Method
Durometer Hardness (Shore D)	65 to 75		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	65.5	MPa	ASTM D638
Tensile Elongation (Break)	5.0 to 7.0	%	ASTM D638
Flexural Strength	68.9	MPa	ASTM D790
Compressive Strength	79.3	MPa	ASTM D695

Thermal	Nominal Value	Unit
CLTE - Flow	3.5E-5	cm/cm/°C
Thermal Conductivity	0.65	W/m/K
Heat Deflection Temperature	80	°C
Service Temperature	105	°C

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	4.40		ASTM D150
Dissipation Factor (1 kHz)	0.020		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: 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	1.50	g/cm ³	
-- 4	1.50	g/cm ³	
Viscosity			
-- 5	7.2	Pa·s	ASTM D2393
-- 6	9.8	Pa·s	
-- 7	11	Pa·s	ASTM D2393
Curing Time (22°C)	16 to 24	hr	
Gel Time (25°C)	60 to 1.2E+2	min	
Pot Life ⁸	30 to 45	min	

NOTE

- | | |
|----|---------------|
| 1. | Part A |
| 2. | Part B |
| 3. | Part B |
| 4. | Part A |
| 5. | Part A |
| 6. | Mixed |
| 7. | Part B |
| 8. | 100 gram mass |

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