

INSULCAST® 116 FR-FC-FS

Epoxy; Epoxide
ITW Polymers Coatings North America

Message:

INSULCAST 116 FR-FC-FS 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-FS 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			
Features	Flame Retardant		
Processing Method	Casting		
	Potting		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore D)	80		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	65.5	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Strength	68.9	MPa	ASTM D790
Compressive Strength	79.3	MPa	ASTM D695
Thermal	Nominal Value	Unit	
CLTE - Flow	4.5E-5	cm/cm/°C	
Thermal Conductivity	0.65	W/m/K	
Heat Deflection Temperature	80	°C	
Service Temperature	105	°C	
Tack Free Time ¹	6.0	hr	
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			
-- ²	Black		
-- ³	Grey		
Density			
-- ⁴	1.50	g/cm ³	
-- ⁵	1.50	g/cm ³	
Viscosity			
-- ⁶	7.2	Pa·s	ASTM D2393
-- ⁷	9.8	Pa·s	
-- ⁸	10	Pa·s	ASTM D2393
Curing Time (22°C)	16 to 24	hr	
Gel Time (25°C)	60	min	
Pot Life ⁹	30	min	

NOTE

- | | |
|----|---------------|
| 1. | 150 gram mass |
| 2. | Part A |
| 3. | Part B |
| 4. | Part B |
| 5. | Part A |
| 6. | Part A |
| 7. | Mixed |
| 8. | Part B |
| 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



WECHAT