

# INSULCAST® 985 FR

Epoxy; Epoxide

ITW Polymers Coatings North America

## Message:

INSULCAST 985 FR is a semi-flexible flame retardant epoxy compound displaying the best thermal shock resistance currently available in an epoxy compound. It has excellent electrical properties over a wide range of temperatures and conforms to the component program of Underwriters Laboratories' Flame Class 94V-O. INSULCAST 985 FR makes use of the latest polymer and filler technology.

General Information			
Features	Flame Retardant		
	Good Electrical Properties		
	Good Thermal Shock Resistance		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore D)	70		ASTM D2240
Thermal	Nominal Value	Unit	
CLTE - Flow	3.2E-5	cm/cm/°C	
Thermal Conductivity	0.43 to 0.58	W/m/K	
Service Temperature	-55 to 155	°C	
Thermal Shock Resistance - Method 107E <sup>1</sup>	Passes B-1		
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.0E+15	ohms · cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.80		ASTM D150
Dissipation Factor (1 kHz)	0.030		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 1.0		
Part B	Mix Ratio by Weight: 1.0		
Shelf Life (25°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- <sup>2</sup>	Black		
-- <sup>3</sup>	Colorless		
Density			
-- <sup>4</sup>	1.50	g/cm <sup>3</sup>	
-- <sup>5</sup>	1.62	g/cm <sup>3</sup>	
Viscosity			ASTM D2393
-- <sup>6</sup>	18	Pa · s	

25°C <sup>7</sup>	50	Pa·s
-- <sup>8</sup>	80	Pa·s
Curing Time		
125°C	2.0	hr
85°C	16	hr
Pot Life (25°C)	240 to 360	min

#### NOTE

- |    |             |
|----|-------------|
| 1. | MIL STD 202 |
| 2. | Part A      |
| 3. | Part B      |
| 4. | Part B      |
| 5. | Part A      |
| 6. | Part A      |
| 7. | Mixed       |
| 8. | Part B      |

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