

INSULCAST® 961 FR

Epoxy; Epoxide

ITW Polymers Coatings North America

Message:

INSULCAST 961 FR is a low density flame retardant epoxy casting system. INSULCAST 961 FR finds use in airborne or light weight equipment where thermal insulation or a low dielectric constant is required.

General Information			
Features	Flame Retardant		
	Low Density		
Uses	Insulation		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Water Absorption (24 hr)	0.40	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	27.6	MPa	ASTM D638
Tensile Elongation (Break)	< 5.0	%	ASTM D638
Flexural Strength	29.0	MPa	ASTM D790
Thermal	Nominal Value	Unit	
CLTE - Flow	4.0E-5	cm/cm/°C	
Thermal Conductivity	0.17	W/m/K	
Service Temperature ¹	105 to 155	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms · cm	ASTM D257
Dielectric Strength	15	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.70		ASTM D150
Dissipation Factor (1 kHz)	0.020		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Shelf Life (25°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color	Black		
Density	0.599 to 0.748	g/cm ³	
Viscosity			ASTM D2393
-- ²	5.0 to 9.0	Pa · s	
--	17	Pa · s	
Curing Time			
25°C ³	2.0 to 3.0	hr	

100°C ⁴	3.0	hr
75°C ⁵	16 to 20	hr
25°C ⁶	24	hr
25°C ⁷	24	hr

NOTE

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|----|----------------------|
| 1. | Depends on INSULCURE |
| 2. | Mixed |
| 3. | INSULCURE 13 |
| 4. | INSULCURE 11B |
| 5. | INSULCURE 20 |
| 6. | INSULCURE 9 |
| 7. | INSULCURE 44 |

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