

INSULGEL 50 FC Black

Epoxy; Epoxide

ITW Polymers Coatings North America

Message:

INSULGEL 50 FC Black is a room temperature curing epoxy gel. It is low in viscosity and does not normally require vacuum de-gassing to assure bubble-free castings.

General Information			
Features	Low Viscosity		
Forms	Gel		
Hardness	Nominal Value	Test Method	
Durometer Hardness (Shore A)	50	ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	4.14	MPa	ASTM D638
Tensile Elongation (Break)	150	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	4.5E-5	cm/cm/°C	
Thermal Conductivity	0.23	W/m/K	
Service Temperature	105	°C	
Electrical	Nominal Value	Unit	
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.50		ASTM D150
Dissipation Factor (1 kHz)	0.020		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 25		
Shelf Life (25°C)	52	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- 1	Amber		
-- 2	Black		
Density			
-- 3	0.948	g/cm ³	
-- 4	1.05	g/cm ³	
Viscosity			ASTM D2393
-- 5	0.30	Pa · s	
-- 6	0.50	Pa · s	
-- 7	0.55	Pa · s	

Curing Time (25°C)	24	hr
Pot Life (25°C)	10	min
NOTE		
1.	Part B	
2.	Part A	
3.	Part B	
4.	Part A	
5.	Part B	
6.	Mixed	
7.	Part A	

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