INSULGEL 70 CC FR NS

Epoxy; Epoxide

ITW Polymers Coatings North America

Message:

INSULGEL 70 CC FR NS is an epoxy compound which exhibits superior thermal shock resistance by making use of an inherently flexible epoxy resin and special filler technology. It provides reduced shrinkage and low coefficient of thermal expansion resulting in decreased stress and improved adhesion. In addition, a significant portion of the product is manufactured from environmentally sustainable raw materials. INSULGEL 70 CC FR NS is UL recognized under file E86165 & meets the flammability requirement of 94 V-0.

Goo	ne Retardant od Thermal Shock Resistance ewable Resource Content		
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	ewable Resource Content		
Ren			
	165		
	165		
L File Number E86			
orms Gel			
ardness Nomi	nal Value		Test Method
urometer Hardness (Shore D) 50			ASTM D2240
lechanical Nomi	nal Value	Unit	Test Method
ensile Strength 8.27		MPa	ASTM D638
ensile Elongation (Break) 90		%	ASTM D638
hermal Nomi	nal Value	Unit	
lass Transition Temperature 4.00 t	o 9.00	°C	
LTE - Flow 9.0E-	5	cm/cm/°C	
nermal Conductivity 0.52		W/m/K	
ervice Temperature -40 to	105	°C	
lectrical Nomi	nal Value	Unit	Test Method
olume Resistivity			ASTM D257
25°C 7.0E+	12	ohms·cm	
100°C 1.0E+	10	ohms·cm	
ielectric Strength 16		kV/mm	ASTM D149
ielectric Constant (1 kHz) 4.10			ASTM D150
issipation Factor (1 kHz) 0.080			ASTM D150
ammability Nomi	nal Value	Unit	Test Method
ame Rating V-0			UL 94
nermoset Nomi	nal Value	Unit	Test Method
nermoset Components			
Part A Mix R	Mix Ratio by Weight: 100		
Part B Mix R	Mix Ratio by Weight: 10 to 11		
nelf Life (25°C) 52		wk	

Uncured Properties	Nominal Value	Unit	Test Method
Color			
1	Amber		
2	Black		
Density			
3	0.978	g/cm³	
4	1.61	g/cm³	
Viscosity			ASTM D2393
25°C ⁵	0.13	Pa·s	
6	3.0	Pa·s	
25°C ⁷	16	Pa·s	
Curing Time (25°C)	16 to 24	hr	
Pot Life ⁸ (25°C)	30 to 45	min	
NOTE			
1.	Part B		
2.	Part A		
3.	Part B		
4.	Part A		
5.	Part B		
6.	Mixed		
7.	Part A		
8.	100 gram mass		

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