

# INSULGEL 90

Epoxy; Epoxide  
ITW Polymers Coatings North America

Message:  
INSULGEL 90 is a room temperature curing, transparent, epoxy gel in which the gel number actually equals the hardness. INSULGEL 90 is low viscosity and does not normally require vacuum de-gassing to void-free castings and imbedments.

General Information				
Features	Low Viscosity			
Forms	Gel			
Hardness	Nominal Value		Test Method	
Durometer Hardness (Shore A)	90		ASTM D2240	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength	6.89	MPa	ASTM D638	
Tensile Elongation (Break)	75	%	ASTM D638	
Thermal	Nominal Value	Unit		
CLTE - Flow	6.0E-5	cm/cm/°C		
Thermal Conductivity	0.23	W/m/K		
Service Temperature	105	°C		
Electrical	Nominal Value	Unit	Test Method	
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257	
Dielectric Strength	15	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	Clear/Transparent			
Density				
-- 3	0.958	g/cm³	ASTM D2393	
-- 4	1.05	g/cm³		
Viscosity				
-- 5	0.10	Pa · s		
-- 6	0.20	Pa · s		
-- 7	0.30	Pa · s		

Curing Time (25°C)	72	hr
Pot Life (25°C)	60 to 90	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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