

INSULCAST® RTVS 51

Silicone Rubber, RTV-2

ITW Polymers Coatings North America

Message:

RTVS 51 is a low temperature flexible, easily pourable methyl phenyl RTV Silicone sealant/encapsulant.

The RTVS 51 can be used with a wide variety of curing agents, thus varying pot life, cure time, mix ratios and cure conditions (See RTVS Catalyst Selector Guide).

General Information			
Features	Low Temperature Flexibility		
Processing Method	Encapsulating		
Hardness	Nominal Value	Test Method	
Durometer Hardness (Shore A)	50	ASTM D2240	
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	2.62	MPa	ASTM D412
Tensile Elongation (Break)	170	%	ASTM D412
Tear Strength ¹	4.38	kN/m	ASTM D624
Thermal	Nominal Value	Unit	
CLTE - Flow	2.2E-4	cm/cm/°C	
Thermal Conductivity	0.31	W/m/K	
Service Temperature	-115 to 232	°C	
Mixing Ratio - by weight ²	0.10 to 0.50	%	
Linear Shrinkage	0.20 to 0.60	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+14	ohms · cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.60	ASTM D150	
Dissipation Factor (1 kHz)	5.0E-3	ASTM D150	
Thermoset	Nominal Value	Unit	Test Method
Shelf Life (25°C)	26	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color	White		
Density	1.25	g/cm ³	
Viscosity	12	Pa · s	ASTM D2393
Pot Life ³ (25°C)	15 to 120	min	
NOTE			
1.	Die B		
2.	w/CAT-2		
3.	varies w/% of CAT 2		

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