

# INSULCAST® RTVS 46

Silicone Rubber, RTV-2  
ITW Polymers Coatings North America

Message:

RTVS 46 is a pourable RTV Silicone sealing/potting compound which cures to a flexible syntactic foam. RTVS 46 finds use in applications involving air-borne or "man-pack" equipment. RTVS 46 is suggested for use in circuitry requiring low capacitance, low dielectric constant and low dissipation.

General Information			
Features	Low Density		
Processing Method	Potting		
Physical	Nominal Value	Unit	Test Method
Water Absorption (25°C, 24 hr)	0.10	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	30		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	> 4.83	MPa	ASTM D412
Tensile Elongation (Break)	> 120	%	ASTM D412
Thermal	Nominal Value	Unit	
CLTE - Flow	2.0E-4	cm/cm/°C	
Thermal Conductivity	0.26	W/m/K	
Service Temperature	-50 to 204	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength	9.8	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	2.60		ASTM D150
Dissipation Factor (1 kHz)	4.0E-3		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 5.0		
Shelf Life (25°C)	26	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color	White		
Density	0.708	g/cm <sup>3</sup>	
Viscosity	40	Pa · s	ASTM D2393
Curing Time (25°C)	24	hr	
Pot Life (25°C)	120 to 180	min	

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