

# INSULCAST® RTVS 11

Silicone Rubber, RTV-2

ITW Polymers Coatings North America

## Message:

RTVS 11 is a low viscosity, multi-purpose compound, designed for use as a potting, encapsulating, sealing and mold making material. Due to its excellent electrical properties, the RTVS 11 is used extensively as a high voltage potting compound, as well as an encapsulating compound for delicate circuitry. The RTVS 11 can be used with various curing agents, thus varying pot life, cure time, mix ratios and cure conditions. (See RTVS Catalyst Selector Guide).

General Information			
Features	General Purpose Good Electrical Properties Low Viscosity		
Uses	General Purpose Molds/Dies/Tools Seals		
Processing Method	Encapsulating Potting		
Hardness	Nominal Value	Test Method	
Durometer Hardness (Shore A)	45	ASTM D2240	
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	3.45	MPa	ASTM D412
Tensile Elongation (Break)	150	%	ASTM D412
Tear Strength <sup>1</sup>	3.50	kN/m	ASTM D624
Thermal	Nominal Value	Unit	
CLTE - Flow	2.5E-4	cm/cm/°C	
Thermal Conductivity	0.31	W/m/K	
Service Temperature	-55 to 204	°C	
Mixing Ratio - by weight <sup>2</sup>	0.10 to 0.50	%	
Linear Shrinkage	0.20 to 0.50	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	9.0E+14	ohms · cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	3.40		ASTM D150
Dissipation Factor (1 kHz)	0.020		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Shelf Life (25°C)	26	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color	White		

Density	1.18	g/cm <sup>3</sup>	
Viscosity	12	Pa·s	ASTM D2393
Curing Time (25°C)	24	hr	
Pot Life <sup>3</sup> (25°C)	15 to 120	min	

**NOTE**

1.	Die B
2.	w/CAT-2
3.	varies with % of CAT-2

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**Recommended distributors for this material**

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