

INSULCAST® RTVS 61M

Silicone Rubber, RTV-2
ITW Polymers Coatings North America

Message:

RTVS 61M is a low viscosity, self-extinguishing transparent RTVS Silicone. RTVS 61M is used in situations where component identification and protection against shock and vibration is needed. Heat can be used to accelerate the cure.

General Information			
Features	Low Viscosity		
	Self Extinguishing		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore A)	35		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	2.76	MPa	ASTM D412
Tensile Elongation (Break)	150	%	ASTM D412
Tear Strength ¹	4.38	kN/m	ASTM D624
Thermal	Nominal Value	Unit	
CLTE - Flow	2.7E-4	cm/cm/°C	
Thermal Conductivity	0.19	W/m/K	
Service Temperature	-55 to 204	°C	
Linear Shrinkage	0.20	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	2.70		ASTM D150
Dissipation Factor (1 kHz)	1.0E-3		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 10		
Part B	Mix Ratio by Weight: 1.0		
Shelf Life (25°C)	26	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ²	Clear/Transparent		
-- ³	Clear/Transparent		
Density			
-- ⁴	0.998	g/cm ³	
-- ⁵	0.998	g/cm ³	
-- ⁶	1.02	g/cm ³	

Viscosity		ASTM D2393
-- 7	4.0	Pa·s
-- 8	4.5	Pa·s
-- 9	5.0	Pa·s

Curing Time		
95°C	1.0	hr
50°C	2.0	hr
25°C	24	hr
Pot Life (25°C)	120	min

NOTE		
1.	Die B	
2.	Part B	
3.	Part A	
4.	Part B	
5.	Part A	
6.	Mixed	
7.	Part A	
8.	Mixed	
9.	Part B	

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