

INSULCAST® MRTV 2

Silicone Rubber, RTV-2
ITW Polymers Coatings North America

Message:

INSULCAST MRTV 2 is a high tear strength, high elongation, addition cure mold-making RTV silicone rubber. MRTV 2 has very low shrinkage on cure. The MRTV 2 is ideal for detailed reproduction.

General Information			
Features	Good Tear Strength		
	High Elongation		
	Low Shrinkage		
Uses	Molds/Dies/Tools		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore A)	40		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Compressive Strength	0.621	MPa	ASTM D695
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	4.83	MPa	ASTM D412
Tensile Elongation (Break)	400	%	ASTM D412
Tear Strength ¹	15.8	kN/m	ASTM D624
Thermal	Nominal Value	Unit	
CLTE - Flow	4.2E-4	cm/cm/°C	
Thermal Conductivity	0.31	W/m/K	
Service Temperature	-55 to 204	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.6E+15	ohms · cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	2.94		ASTM D150
Dissipation Factor (1 kHz)	2.0E-4		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 10		
Shelf Life (25°C)	26	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ²	Clear/Transparent		
-- ³	White		
Density			

-- ⁴	0.998	g/cm ³	
-- ⁵	1.15	g/cm ³	
Viscosity			ASTM D2393
25°C ⁶	10	Pa·s	
-- ⁷	90	Pa·s	
25°C ⁸	110	Pa·s	
Curing Time			
65°C	1.0 to 2.0	hr	
50°C	3.0 to 4.0	hr	
25°C	24	hr	
Pot Life ⁹ (25°C)	120	min	

NOTE

- | | |
|----|---------------|
| 1. | Die B |
| 2. | Part B |
| 3. | Part A |
| 4. | Part B |
| 5. | Part A |
| 6. | Part B |
| 7. | Mixed |
| 8. | Part A |
| 9. | 100 gram mass |

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