

INSULCAST® MRTV 9

Silicone Rubber, RTV-2
ITW Polymers Coatings North America

Message:

INSULCAST MRTV 9 is a high tear strength, high elongation addition cure mold making RTV silicone rubber. MRTV 9 has low shrinkage and reproduces the most intricate detail.

General Information			
Features	Good Tear Strength		
	High Elongation		
	Low Shrinkage		
Uses	Molds/Dies/Tools		
Hardness	Nominal Value		Test Method
Durometer Hardness (Shore A)	24		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	3.45	MPa	ASTM D412
Tensile Elongation (Break)	1000	%	ASTM D412
Tear Strength			ASTM D624
-- ¹	20.5	kN/m	
-- ²	21.9	kN/m	
Thermal	Nominal Value	Unit	
CLTE - Flow	4.2E-4	cm/cm/°C	
Thermal Conductivity	0.026	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	22	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	2.94		ASTM D150
Dissipation Factor (1 kHz)	2.0E-3		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100		
Part B	Mix Ratio by Weight: 10		
Shelf Life (25°C)	26	wk	
Uncured Properties	Nominal Value	Unit	Test Method
Color			
-- ³	Black		
-- ⁴	Clear/Transparent		
Density			

-- 5	0.998	g/cm ³	
-- 6	1.15	g/cm ³	
Viscosity			ASTM D2393
25°C ⁷	< 1.0	Pa·s	
-- 8	50	Pa·s	
25°C ⁹	100	Pa·s	
Curing Time			
65°C	1.0 to 2.0	hr	
50°C	3.0 to 4.0	hr	
25°C	16 to 24	hr	
Pot Life ¹⁰ (25°C)	90 to 120	min	

NOTE

- | | |
|-----|---------------|
| 1. | Die B |
| 2. | Die C |
| 3. | Part A |
| 4. | Part B |
| 5. | Part B |
| 6. | Part A |
| 7. | Part B |
| 8. | Mixed |
| 9. | Part A |
| 10. | 100 gram mass |

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