

InvisiSil™ IVS4622

Silicone

Momentive Performance Materials Inc.

Message:

InvisiSil IVS4622 is a two-component, addition cure silicone rubber designed for optical device coating. This product cures with heat to an elastomer.

Key Features and Benefits

- Low viscosity allows for excellent flowability
- Excellent transparency
- Cures fast with heat and adheres to parts
- Convenient 1:1 mix ratio by weight
- High Purity
- Shore A 60

Potential Applications

- Optical device coating

General Information		
Features	Fast Cure	
	Heat Cure	
	High Clarity	
	High Flow	
	High Purity	
	Low Viscosity	
Uses	Coating Applications	
	Optical Applications	
Appearance	Clear/Transparent	
Physical	Nominal Value	Unit
Density	1.04	g/cm ³
Optical	Nominal Value	
Refractive Index	1.410	
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 1.0	
Part B	Mix Ratio by Weight: 1.0	
Uncured Properties	Nominal Value	Unit
Color		
-- ¹	Clear/Transparent	
-- ²	Clear/Transparent	
Viscosity		
23°C ³	1.5	Pa·s
23°C ⁴	2.4	Pa·s
23°C ⁵	4.2	Pa·s

Curing Time (150°C)	1.0	hr
Pot Life (23°C)	480	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	55	
Lap Shear Strength	3.20	MPa
Tensile Strength	7.20	MPa
Tensile Elongation at Break	100	%
Electric Strength	30	kV/mm
Relative Permittivity (60 Hz)	2.75	
Volume Resistivity	2.0E+15	ohms·cm
Dissipation Factor (60 Hz)	5.0E-4	

NOTE

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|----|--------------|
| 1. | Part B |
| 2. | Part A |
| 3. | Part B |
| 4. | After Mixing |
| 5. | Part A |

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