

InvisiSil™ IVS4742

Silicone

Momentive Performance Materials Inc.

Message:

InvisiSil IVS4742 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
- Excellent adhesion to Polyphthalamide (PPA)

Potential Applications

- Coating and potting of optical device
- LED Encapsulant and Lens

General Information		
Features	Fast Cure	
	Good Adhesion	
	Heat Cure	
	High Clarity	
	High Flow	
	Low Viscosity	
Uses	Coating Applications	
	Optical Applications	
Appearance	Clear/Transparent	
Processing Method	Encapsulating	
	Potting	
Physical	Nominal Value	Unit
Density	1.05	g/cm ³
Thermal	Nominal Value	Unit
CLTE - Flow	2.7E-4	cm/cm/°C
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	2.4	Pa·s
23°C 4	4.2	Pa·s
23°C 5	14	Pa·s
Curing Time (150°C)	0.033	hr
Pot Life (23°C)	1400	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	71	
Lap Shear Strength	2.70	MPa
Tensile Strength	11.0	MPa
Tensile Elongation at Break	70	%
Electric Strength	33	kV/mm
Relative Permittivity (60 Hz)	2.80	
Volume Resistivity	1.0E+16	ohms·cm
Dissipation Factor (60 Hz)	1.0E-3	
NOTE		
1.	Part B	
2.	Part A	
3.	Part B	
4.	After Mixing	
5.	Part A	

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