

InvisiSil™ IVS4542

Silicone

Momentive Performance Materials Inc.

Message:

IVS4542 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

Convenient 1:1 mix ratio by weight

Cures fast with heat and adheres to parts

Potential Applications

Coating and potting of optical device

General Information		
Features	Fast Cure	
	Heat Cure	
	High Clarity	
	High Flow	
	Low Viscosity	
Uses	Coating Applications	
	Optical Applications	
Appearance	Clear/Transparent	
Processing Method	Potting	
Physical	Nominal Value	Unit
Density	1.03	g/cm ³
Thermal	Nominal Value	Unit
CLTE - Flow	2.8E-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	3.2	Pa · s
23°C ⁴	3.8	Pa · s

23°C ⁵	5.7	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life (23°C)	480	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	48	
Lap Shear Strength	3.70	MPa
Tensile Strength	6.60	MPa
Tensile Elongation at Break	110	%
Electric Strength	20	kV/mm
Relative Permittivity (60 Hz)	2.80	
Volume Resistivity	1.0E+15	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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