InvisiSil™ IVS4312

Silicone

Momentive Performance Materials Inc.

Message:

InvisiSil IVS4312 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	0.990	g/cm^3
Thermal	**Nominal Value**	**Unit**
CLTE - Flow	3.3E-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]	0.80	Pa·s
23°C [4]	1.0	Pa·s

23°C [5]	1.2	Pa·s
Curing Time (150°C)	1.0	hr
Pot Life (23°C)	360	min
Cured Properties	**Nominal Value**	**Unit**
Shore Hardness (Shore A)	29	
Lap Shear Strength	0.300	MPa
Tensile Strength	0.800	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	

Recommended distributors for this material

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