

LightSpan® LS-6946

Silicone

NuSil Technology

Message:

From LEDs to fiber optics, NuSil Technology's LightSpan™ brand product line delivers the most comprehensive line of refractive index matching adhesives, encapsulants and thermosets available.

The benefits of silicone include the following:

Thermal Stability

Low Ionic Species

Maintain Optical Clarity (90% minimum @ 400nm)

Low Moisture Absorption (<0.4%)

Optimization for UV Resistance

Adjustable Cure

Low Outgassing

Low Shrinkage, <1%

Low Modulus: Stress reduction for bonding materials with different coefficients of thermal expansion

General Purpose: Optical Adhesives and Elastomers

Comments: Primed Lap Shear 510 psi, Youngs Modulus 425 psi

General Information		
Features	Good Thermal Stability	
	Good UV Resistance	
	Low Moisture Absorption	
	Low Shrinkage	
	Low to No Outgassing	
Uses	Adhesives	
Processing Method	Injection Molding	
Thermal	Nominal Value	Unit
CLTE - Flow	3.6E-4	cm/cm/°C
Optical	Nominal Value	
Refractive Index	1.460	
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
Viscosity		
-- 1	35	Pa · s
-- 2	40	Pa · s
Curing Time (150°C)	0.50	hr
Pot Life	120	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	30	

Lap Shear Strength	3.52	MPa
Tensile Modulus	2.93	MPa
Tensile Strength	4.65	MPa
Tensile Elongation at Break	280	%

NOTE		
1.	Part B	
2.	Part A	

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