

LightSpan® LS-6140

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: Low Volatility, non-phenyl containing

General Information		
Features	Good Thermal Stability	
	Good UV Resistance	
	Low Moisture Absorption	
	Low Shrinkage	
	Low to No Outgassing	
Uses	Adhesives	
Processing Method	Encapsulating	
Thermal	Nominal Value	Unit
CLTE - Flow	4.0E-4	cm/cm/°C
Optical	Nominal Value	
Refractive Index	1.400	
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	2.6	Pa · s
-- 2	3.7	Pa · s
Curing Time (150°C)	0.25	hr
Pot Life	180	min
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	50	

Tensile Strength	5.86	MPa
Tensile Elongation at Break	90	%
NOTE		
1.	Part B	
2.	Part A	

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