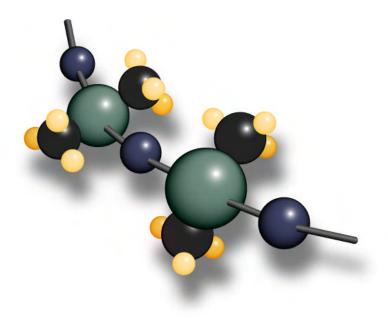


UK & Ireland Distributor



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LS1-6943

Optical Thermoset

Product Profile

Description

- Solvent-free, low viscosity, clear, two-part silicone elastomer
- Accelerated cure rate with heat
- Based on a dimethyl diphenyl silicone copolymer
- Radiation tolerant
- 10:1 Mix Ratio (Part A:B)



NuSil Technology

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Applications

- For bonding, casting or injection molding of high performance optical components
- Formulated for extreme temperature applications
- For applications requiring index matching at 1.43

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance	Clear	-	-	-
Viscosity	4,000 cP	4,000 mPas	D1084, D2196	001
Work Time	10 min	-	-	008
Cure System	Pt Addition			
Cured: 10 min @ 150°C (302°F)				
Operating Temperature Range	-178 to 500°F	-115 to 260°C	-	-
Specific Gravity	1.00	-	D792	003
Durometer, Type 00	65	-	D2240	006
Tensile Strength	45 psi	0.31 MPa	D412, D882	007
Elongation	130 %	-	D412, D882	007
Dielectric Strength	500 volts/mil	19.7 kV/mm	D149	-
Volume Resistivity	$1 \ge 10^{15}$ ohm-cm	-	D257	040
Refractive Index	1.43	-	D1747, D1218	018
Refractive Index vs. Wavelength	See chart	-	-	-
Optical Absorption vs. Wavelength	See chart	-	-	-

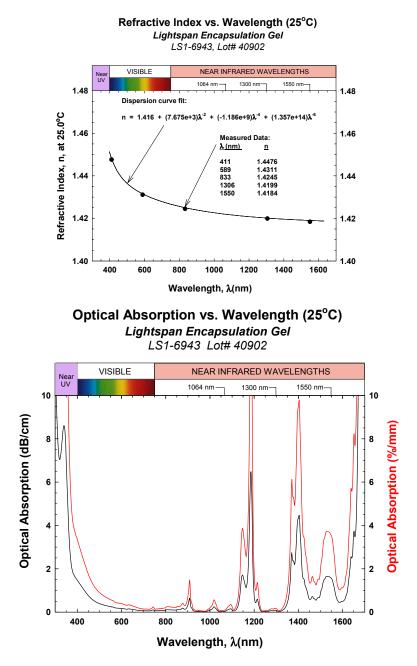


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Form number





Instructions for Use

Mixing

Thoroughly mix in a 10:1 ratio by weight Part A to Part B, just prior to use. Take care to minimize air entrapment during mixing.

Vacuum Deaeration

Remove air entrapped during mixing by common vacuum deaeration procedure, observing all applicable safety precautions. Slowly apply vacuum, up to 28 inches Hg, to a container rated for use and of volume at least four times that of material being deaerated. Hold vacuum until presence of air is no longer evident.

Substrate Consideration

Cures in contact with most materials common to electronic assemblies. Exceptions include butyl and chlorinated rubbers, some RTV silicones containing organic tin and/or amines and unreacted residues of some curing agents.

Note: Some bonding applications may require the use of a primer. NuSil Technology LS1-6943 is recommended.

Packaging

37 ml SxS Kit 250 ml SxS Kit 1 Pint Kit (505 g) 1 Gallon Kit (4.04 kg) 5 Gallon Kit (20.02 kg)

Warranty

6 Months

Adjustable Cure Schedule

Product cures at room temperature and a wide range of cure times and temperatures to accommodate different production needs. Contact NuSil Technology for details.

Warnings About Product Safety

NuSil Technology believes that the information and data contained herein are accurate and reliable. However, the user is responsible to determine the material's suitability and safety of use. NuSil Technology cannot know each application's specific requirements and hereby notifies the user that it has not tested or determined this material's suitability or safety for use in any application. The user is responsible to adequately test and determine the safety and suitability for their application and NuSil Technology makes no warranty concerning fitness for any use or purpose. NuSil Technology has completed no testing to establish safety of use in any medical application.

NuSil Technology has tested this material only to determine if the product meets the applicable specifications. (Please contact NuSil Technology for assistance and recommendations when establishing specifications.) When considering the use of NuSil Technology products in a particular application, review the latest Material Safety Data Sheets and contact NuSil Technology with any questions about product safety information.

Do not use any chemical in a food, drug, cosmetic, or medical application or process until having determined the safety and legality of the use. The user is responsible to meet the requirements of the U.S. Food and Drug Administration (FDA) and any other regulatory agencies. Before handling any other materials mentioned in the text, obtain available product safety information and take the necessary steps to ensure safety of use.

Specifications

Do not use the typical properties shown in this technical profile as a basis for preparing specifications. Please contact NuSil Technology for assistance and recommendations in establishing particular specifications.

Patent Warning

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