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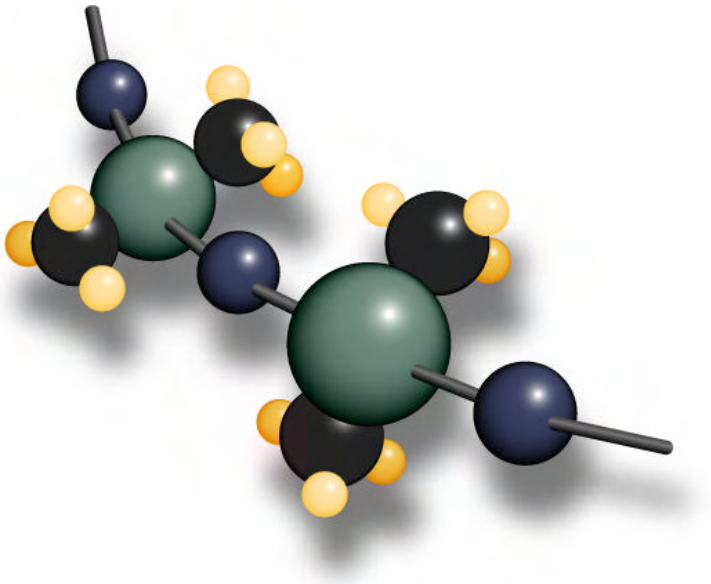

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Product Profile

NuSil Technology LLC
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An ISO 9001
Certified Company

MED20-2955

Thermally Conductive Silicone Elastomer

Description

- Two-part, white, thermally conductive adhesive and potting compound
- Cures with the addition of heat
- Designed to allow bond line thicknesses ≥ 50 microns
- 20:1 Mix Ratio (Part A:Part B)

Applications

- For use as a thermally conductive adhesive and potting compound

NuSil Technology's MED20-2955 is a restricted product. It shall not be considered for use in human implantation for a period of greater than 29 days.

Properties	Average Result	ASTM	NT-TM
Uncured:			
Appearance	White	D2090	002
Extrusion Rate, Part A (Performed using a SEMCO® 440 nozzle with an 1/8" orifice and 90 +/-5 psi air pressure)	140 g/min	C603	033
Work Time	2.5 hours	-	008
Cured: 30 minutes @ 150°C (302°F)			
Durometer, Type A	60	D2240	006
Tensile Strength	425 psi (2.9 MPa)	D412	007
Elongation	200%	D412	007
Tear Strength	60 ppi (10.6 kN/m)	D624	009
Thermal Conductivity	0.633 W/(mK) (15 x 10^{-4} cal/(cm·sec·°C))	E 1530	101
Tissue Culture (Cytotoxicity Testing)	Pass	-	061

Properties tested on a lot-to-lot basis. Do not use the properties shown in this technical profile as a basis for preparing specifications. Please contact NuSil Technology for assistance and recommendations in establishing particular specifications.

Instructions for Use

Thoroughly stir Part A prior to weighing for Part B addition as the product separates. Mix 20 parts Part A to 1 part Part B by weight, just prior to use.

Vacuum Deaeration

Remove air entrapped during mixing by common vacuum deaeration procedure, observing all safety precautions. Slowly apply full vacuum to a container rated for use and at least four times the volume of material being deaerated. Hold vacuum until bulk deaeration is complete.

Substrate Considerations

Cures in contact with most materials common to biomedical assemblies. Exceptions include butyl and chlorinated rubbers, some RTV silicones and unreacted residues of some curing agents.

Note: Some bonding applications may require the use of a primer. NuSil Technology MED1-161 silicone primer is recommended.

Packaging

50 Gram Kit
100 Gram Kit
500 Gram Kit

Warranty

12 Months

Specifications

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

Warranty Information

The warranty period provided by NuSil Technology LLC (hereinafter "NuSil Technology") is 12 months from the date of shipment when stored below 40°C in original unopened containers. Unless NuSil Technology provides a specific written warranty of fitness for a particular use, NuSil Technology's sole warranty is that the product will meet NuSil Technology's then current specification. NuSil Technology specifically disclaims all other expressed or implied warranties, including, but not limited to, warranties of merchantability and fitness for use. The exclusive remedy and NuSil Technology's sole liability for breach of warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. NuSil Technology expressly disclaims any liability for incidental or consequential damages.

Warnings About Product Safety

NuSil Technology believes, to the best of its knowledge, that the information and data contained herein are accurate and reliable. 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 Sheet 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, the user is advised to obtain available product safety information and take the necessary steps to ensure safety of use.

Patent / Intellectual Property Warning

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