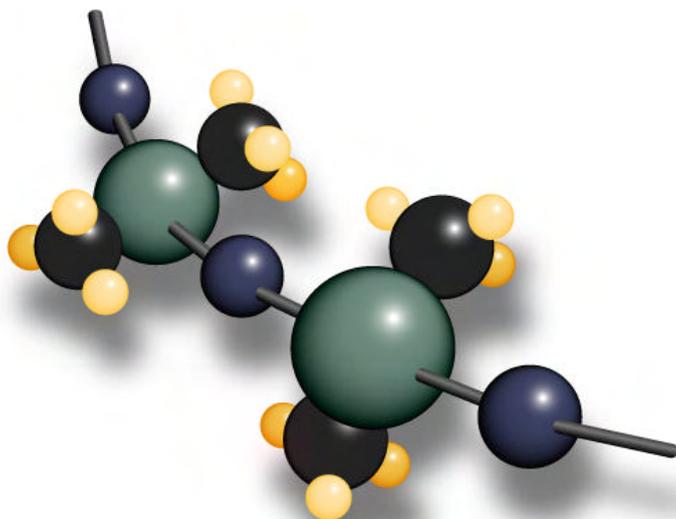


# Polymer Systems Technology Limited

UK & Ireland Distributor



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# MED-1555

## Fluorosilicone Adhesive/Sealant

### Description

- A translucent, one-part, RTV silicone
- 100 mol % fluorosilicone

### Applications

- For sealing and bonding applications requiring solvent resistance
- For protecting or coating hardware components exposed to solvents

Properties	Average Result	ASTM	NT-TM
<b>Uncured:</b>			
Appearance	Translucent	D2090	002
Extrusion Rate	230 g/min	C603	033
Tack-Free Time	15 minutes	C679	005
<b>Cured:</b> 72 hours @ ambient temperature and humidity			
Specific Gravity	1.35	D792	003
Durometer, Type A	35	D2240	006
Tensile Strength	820 psi (5.7 MPa)	D412	007
Elongation	400%	D412	007
Tear Strength	50 ppi (8.8 kN/m)	D624	009
Lap Shear Strength	200 psi (1.4 MPa)	D1002	010
Tissue Culture (Cytotoxicity Testing)	Pass	USP <87> ISO 10993-5	061
Elemental Analysis of Trace Metals	Pass	E305	131

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

#### Adjustable Cure Schedule

Cure time depends upon humidity and the thickness of the material being bonded. Accomplish cure by exposing to atmospheric moisture. Therefore cure may take longer in dry air. Cure occurs at any level above 20% relative humidity. Cure continues for several days until acetic acid odor has disappeared. Vulcanization and cure are not significantly improved by heating. Product cures at a wide range of cure times and temperatures to accommodate different production needs. Contact NuSil Technology for details.

**Note:** Some bonding applications may require the use of a primer. NuSil Technology's MED-160 is recommended.

#### Packaging

6 oz Tube (177 mL)

#### Warranty

12 Months

### Heat and Low-Temperature Resistance

In most applications, silicone may be heated from 180 to 250°C, without any appreciable effect on physical properties. Silicone also demonstrates flexibility at extreme low temperatures, with a stiffening temperature range of -50 to -70°C.

The operating temperature range of a silicone in any application is dependent on many variables, including but not limited to: temperature, time of exposure, type of atmosphere, exposure of the material's surface to the atmosphere, and mechanical stress. In addition, a material's physical properties will vary at both the high and low end of the operating temperature range. The user is responsible to verify performance of a material in a specific application.

## **FDA Master File**

A Master File for MED-1555 has been filed with the U.S. Food and Drug Administration. Customers interested in authorization to reference the Master File must contact NuSil Technology.

## **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**

NuSil Technology disclaims any expressed or implied warranty against the infringement of any domestic or international patent/intellectual property right. NuSil Technology does not warrant the use or sale of the products described herein will not infringe the claims of any domestic or international patent/intellectual property right covering the product itself, its use in combination with other products, or its use in the operation of any process.