

# MED-4960

Liquid Silicone Rubber

## Product Profile

### Description

- Two-part, translucent silicone system used with injection molding equipment
- Rapid cure with no post-cure required
- 1:1 Mix Ratio (Part A: B)

### Applications

- For the injection molding of parts requiring a material with a high durometer including: precision molded parts, molded rubber stoppers and O-rings

**NuSil Technology's MED-4960 is a restricted product. It shall not be considered for use in human implantation for a period of greater than 29 days.**

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
<b>Uncured:</b>				
Appearance	Translucent	-	D2090	002
Extrusion Rate*, Part A	50 g/min	-	C603	033
Extrusion Rate*, Part B	80 g/min	-	C603	033
Work Time	>24 hours	-	-	008
<b>Cured: 5 minutes @ 165°C (329°F)</b>				
Specific Gravity	1.16	-	D792	003
Durometer, Type A	60	-	D2240	006
Tensile Strength	1,300 psi	9.0 MPa	D412, D882	007
Elongation	525%	-	D412, D882	007
Tear Strength	260 ppi	45.9 kN/m	D624	009
Stress @ 200% Strain	600 psi	4.1 MPa	D412, D882	007

\* Performed using a SEMCO® 440 nozzle with a 1/8" orifice and 90+/-5 psi air pressure

### Instructions for Use

#### Mixing

Use with mix and dispense equipment in a 1:1 mix ratio. If mixing by hand, take care to minimize air entrapment.

#### 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 biomedical assemblies. Exceptions include butyl, latex, chlorinated rubbers, some RTV silicones and unreacted residues of some curing agents.

#### Adjustable Cure Schedule

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

### Packaging

- 200 ml SxS Kit
- 400 ml SxS Kit
- 40 Ounce Kit (1.18 L)
- 2 Pint Kit (910 g)
- 2 Gallon Kit (7.28 kg)
- 10 Gallon Kit (36.4 kg)

### Warranty

12 Months

## **FDA Master Access File**

A Master Access File for MED-4960 has been filed with the U.S. Food and Drug Administration. Customers interested in authorization to reference the Master Access File must contact NuSil Technology.

## **Warnings About Product Safety**

NuSil Technology believes the information and the 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 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, 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**

NuSil Technology disclaims any expressed or implied warranty against the infringement of any patent. NuSil Technology does not warrant the use or sale of the products described herein will not infringe the claims of any United States' or other country's patents covering the product itself, its use in combination with other products or its use in the operation of any process.

## **Warranty Information**

NuSil Technology's warranty period 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 any other expressed or implied warranty, including 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.