

# Polymer Systems Technology Limited

UK & Ireland Distributor



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# CF20-2186

General Purpose Silicone Elastomer

## Product Profile

### Description

- Two-part, translucent, pourable silicone system
- High tear strength and good physical properties across a broad temperature range
- 1:1 Mix Ratio (Part A: Part B)

### Applications

- To provide protection of electronic components and assemblies against shock, vibration, moisture, ozone, dust, chemicals and other environmental hazards
- For use in potting connectors, cable harness breakouts, molded high voltage terminals, seals and gaskets due to a high physical strength

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
<b>Uncured:</b>				
Appearance	Translucent	-	-	-
Viscosity, Part A	80,000 cP Part A / 50,000 cP Part B	80,000 mPas Part A / 50,000 mPas Part B	D1084, D2196	001
Work Time	3 hours	-	-	008
<b>Cured: Cured 60 min @ 100°C</b>				
Specific Gravity @ 25°C (77°F)	1.10	-	D792	003
Durometer, Type A	30	-	D2240	006
Tensile Strength	1100 psi	7.6 Mpa	D412, D882	007
Elongation	600 %	-	D412, D882	007
Tear Strength	80 ppi	14.1 kN/m	D624	009
Dielectric Strength	900 Volts/mil	35.4 kV/mm	D149	-
Operating Temperature Range	-85 to 465°F	-65 to 240°C	-	-

### Instructions for Use

#### Mixing

Mix in a 1:1 ratio Part A to Part B. 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 and unreacted residues of some curing agents. Units being encapsulated or potted should be clean and free of surface contaminants. Containers and dispensers being used should also be clean and dry. Cure inhibition can usually be prevented by washing all containers with clean solvent or volatilizing the contaminants by heating.

**Note:** Some bonding applications may require the use of a primer. NuSil Technology CF1-135 silicone primer is recommended.

#### 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

50 ml SxS Kit  
 200 ml SxS Kit  
 400 ml SxS Kit  
 2 Pint Kit (910 g)  
 2 Gallon Kit (7.28 kg)  
 10 Gallon Kit (36.4 kg)

### Warranty

6 Months

### 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 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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## **Warranty Information**

NuSil Technology's warranty period is 6 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.