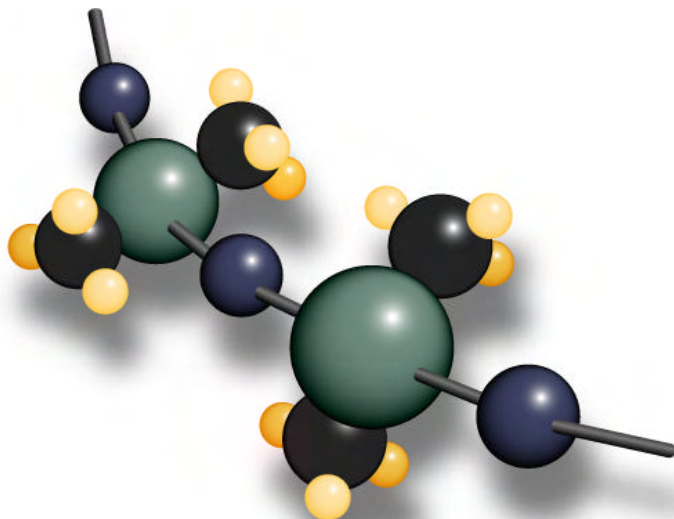


Polymer Systems Technology Limited

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LSR4-5805

Liquid Injection Molding Silicone Elastomer



Creative Partners in a Material World

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An ISO 9001 Certified Company

Product Profile

Description

- Two-part, translucent silicone system used with injection molding equipment
- Offers medium tear strength, a 5 Type A Durometer and good electrical properties
- Meets U.S. Pharmacopoeia Class VI biological testing

Applications

- For applications requiring a soft silicone with medium tear strength
- Used for molding devices for applications requiring its unique cushioning characteristics, including vibration dampening pads for sensitive electronic devices
- Excellent for molding high quality parts at rapid rates

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Chemical Classification	VMQ	-	-	-
Extrusion Rate*	40 gpm	-	C-603	033
Color	Translucent	-	-	-
Work Time	0.75 – 1.5 hours	-	-	008
Cured : (Cured 5 min @ 150°C (302°F))				
Operating Temperature Range	-85 to 465°F	-65 to 240°C	-	-
Specific Gravity	1.07	-	D-792	003
Durometer, Type A	5	-	D-2240	006
Tensile Strength	500 psi	3.45 Mpa	D-412, D-882	007
Elongation	1100 %	-	D-412, D-882	007
Tear Strength, Die B	75 ppi	13.2 kN/m	D-624	009
Refractive Index	1.40	-	D-1747, D-1218	018

* 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

50 ml SxS Kit
400 ml SxS Kit
2 Pint Kit
2 Gallon Kit

Warranty

6 Months

Warnings About Product Safety

NuSil Technology believes that the information and data contained herein is 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

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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.