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LSR-5870

Liquid Injection Molding Silicone Elastomer

NuSil Technology

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An ISO 9001 Certified Company

Product Profile

Description

- Two-part, translucent silicone system used with injection molding equipment
- 1:1 Mix Ratio (Part A:B)
- Good dielectric properties across a broad temperature range

Applications

- For applications requiring a hard silicone with a high tear strength
- Some typical applications include O-rings, gaskets, seals or precision molded parts
- Excellent for molding high quality parts at rapid rates

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance	Translucent	-	D2090	002
Extrusion Rate*, Part A	25 g/min	-	C603	033
Extrusion Rate*, Part B	70 g/min	-	C603	033
Work Time	>72 hours	-	-	008
Cured: 5 min @ 165°C (329°F)				
Specific Gravity	1.16	-	D792	003
Durometer, Type A	70	-	D2240	006
Tensile Strength	1350 psi	9.3 Mpa	D412	007
Elongation	400%	-	D412	007
Tear Strength	225 psi	35.2 kN/m	D624	009
Stress at 200% Strain	750 psi	5.2 Mpa	D412	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. 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 LLC for details.

Packaging

50 mL SxS Kit
 12 oz. Semco Kit (0.336 kg)
 200 mL SxS Kit
 24 oz. Kit (0.672 kg)
 2 Pint Kit (0.910 kg)
 2 Gal Kit (7.28 kg)
 10 Gal Kit (36.4 kg)

Warranty

12 Months

Warnings About Product Safety

NuSil Technology LLC believes that the information and data contained herein are accurate and reliable. However, the user is responsible to determine the material's suitability and safety of use. NuSil Technology LLC 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 LLC makes no warranty concerning fitness for any use or purpose. NuSil Technology LLC has completed no testing to establish safety of use in any medical application.

NuSil Technology LLC has tested this material only to determine if the product meets the applicable specifications. (Please contact NuSil Technology LLC for assistance and recommendations when establishing specifications.) When considering the use of NuSil Technology LLC products in a particular application, review the latest Material Safety Data Sheets and contact NuSil Technology LLC 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 LLC for assistance and recommendations in establishing particular specifications.

Patent Warning

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Warranty Information

NuSil Technology LLC's warranty period is 12 months from the date of shipment when stored below 40°C in original unopened containers. Unless NuSil Technology LLC provides a specific written warranty of fitness for a particular use, NuSil Technology LLC's sole warranty is that the product will meet NuSil Technology LLC's then current specification. NuSil Technology LLC specifically disclaims any other expressed or implied warranty, including warranties of merchantability and fitness for use. The exclusive remedy and NuSil Technology LLC'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 LLC expressly disclaims any liability for incidental or consequential damages.