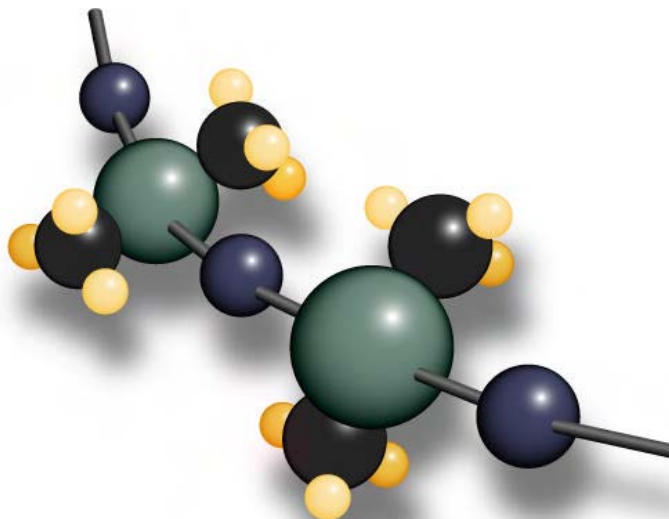


Polymer Systems Technology Limited

UK & Ireland Distributor



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Unit 2. Network 4. Cressex Business Park,
Lincoln Road, High Wycombe, Bucks. HP12 3RF
Phone +44 (0) 1494 446610
Fax: +44 (0) 1494 528611
Web: <http://www.siliconepolymers.co.uk>
Email: sales@silicone-polymers.co.uk



MED-6641

Addition Cure High Tear Silicone Dispersion

Product Profile

Description

- Two-part medium viscosity silicone elastomer dispersed in xylene
- Surfaces cured open-face exhibit lower tack
- 1:1 Mix Ratio (Part A: B)

Applications

- For dip casting and heat-curing of thin elastomeric films

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance	Transparent to translucent.	-	D2090	002
Non-Volatile Content	20%	-	D2288	004
Viscosity	2,500 cP	2,500 mPas	D1084, D2196	001
Cured: 30 min @ ambient temp. and humidity, 45 min @ 75°C (167°F), and 135 min @ 150°C (302°F)*				
Refractive Index	1.41	-	D1747, D1218	018
Durometer, Type A	45	-	D2240	006
Tensile Strength	1,600 psi	11.0 MPa	D412	007
Elongation	1,200%	-	D412	007
Tear Strength	300 ppi	52.9 kN/m	D624	009
Stress @ 100% Strain	150 psi	1.03 MPa	D412	007

*The given ramped cure schedule is suggested to remove solvent prior to elevated temperature cure.

Instructions for Use

Mixing

Thoroughly stir individual components prior to addition to ensure homogeneity. Mix in a 1:1 ratio by weight or volume. Exercise care to prevent solvent loss during deairing. Accomplish additional dilution for thin film applications by adding appropriate solvent.

Warning: Consult the MSDS for MED-6641 prior to use as its solvent carrier is hazardous.

Vacuum Deaeration

Remove air entrapped during mixing by common vacuum deaeration procedure, observing all applicable safety precautions. Slowly apply full vacuum to a container rated for use and at least four times the volume of material being deaerated. Hold vacuum until bulk deaeration is complete.

Substrate Considerations

Cures in contact with most materials common to biomedical assemblies. Exceptions include: sulfur-cured organic rubbers, latex, chlorinated rubbers, some RTV silicones and unreacted residues of some curing agents.

Warnings About Product Safety

NuSil Technology LLC 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 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.

Packaging

2 Pint Kit (910 g)
 2 Gallon Kit (7.28 kg)
 10 Gallon Kit (36.4 kg)

Warranty

12 Months

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 Sheet 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

NuSil Technology LLC disclaims any expressed or implied warranty against the infringement of any patent. NuSil Technology LLC 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 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.