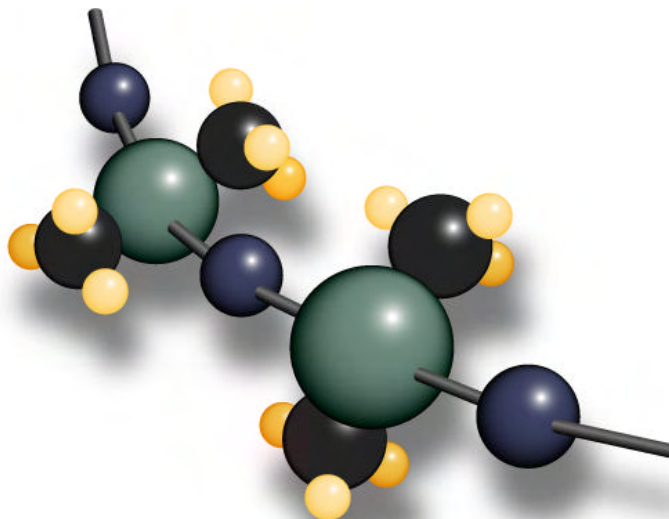


Polymer Systems Technology Limited

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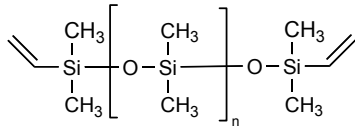


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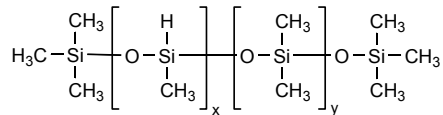
Vinyl Crosspolymer

Product Profile

Description



- Dimethyl polymer endblocked with vinyl and methyl groups



- Dimethyl methylhydride copolymer endblocked with methyl groups

Applications

- As a formulary component in cosmetics applications

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance	Translucent	-	D2090	002
Specific Gravity (Hydrometer)	0.97	-	D1298	097
Viscosity, Part A	10,000 cP	10,000 mPas	D1084, D2196	001
Viscosity, Part B	6,000 cP	6,000 mPas	D1084, D2196	001
Work Time @ ambient temp. and humidity	45 mins.	-	-	008
Cured: 30 minutes @ 140°C (284°F)				
Penetration*	-	3 mm	D217	011

* GCA Precision Penetrometer, 19.5 g shaft, 6.35 mm diameter foot, 15 seconds

Instructions for Use

Mixing

Thoroughly mix just prior to use in a ratio of 1:1 by weight or volume. To obtain a softer gel (higher penetration value), increase the ratio of Part A to Part B in the initial mix. Similarly, to obtain a firmer gel (lower penetration value), increase the ratio of Part B to Part A. Changes in the cure rate result when deviations from the 1:1 mix are used. Airless mixing, metering and dispensing is recommended for production processing.

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.

Cure Inhibition

The cure may be inhibited by traces of amines, sulfur, nitrogen oxide, organotin compounds and carbon monoxide. Because organic rubbers often contain these substances, they should not come in contact with the uncured elastomer. Catalyst residues from silicone RTV elastomers and peroxide-cured silicone elastomers may also inhibit the cure.

Packaging

2 Pint Kit (91 g)
 10 Gal Kit (36.4 kg)

Warranty

12 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 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.

Biocompatibility/Skin Sensitivity

Please contact NuSil Technology regarding current data for this product.

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

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