

R-1140

Clear silicone adhesive

DESCRIPTION

- One-part, translucent, non-slumping silicone adhesive
- Supplied ready to use in Semco® cartridges

APPLICATION

- Bonds aggressively to most surfaces including: glass, ceramics, most metals, natural and synthetic fibers, wood, painted surfaces, many plastics and other silicone rubbers
- For applications requiring an operating temperature range of -65 to 240°C (-85 to 465°F)

PROPERTIES

Typical Properties	Average Result	Metric Conv.	Standard	NT-TM
Uncured:				
Appearance	Translucent	-	ASTM D2090	002
Consistency	Thixotropic	-	-	-
Non-Volatile Content	100%	-	ASTM D2288	004
Tack Free Time	7 min	-	ASTM C679-87	005
Flow Rate*	1.5 inches	38.1 mm	ASTM D2202	019
Set Up Time (Thin Section)	50 min	-	-	-
Cured: 72 hours minimum ambient temperature and humidity				
Specific Gravity	1.09	-	ASTM D792	003
Durometer, Type A	30	-	ASTM D2240	006
Tensile Strength	700 psi	4.8 Mpa	ASTM D412, D882	007
Elongation	350%	-	ASTM D412, D882	007
Lap Shear Strength (primed w/ SP-120)	625 psi	4.3 Mpa	ASTM D1002	010
Tear Strength	40 ppi	7.0kN/m	ASTM D624	009
Young's Modulus	300 psi	2.1 Mpa	-	-

*0.375" plunge for 1 minute

CURE TIME

Cure time required for R-1140 depends on humidity and thickness of the material being bonded. Accomplish cure by exposure to atmospheric moisture. Cure may take longer in dry air but will occur at any level above 20% relative humidity. Cure will continue for several days until acetic acid odor has disappeared. Vulcanization and cure are not significantly improved by heating.

SPECIFICATIONS

Do not use the properties shown in this technical profile as a basis for preparing specifications. Please [contact](#) NuSil Technology for assistance and recommendations in establishing particular specifications.

WARRANTY INFORMATION

The warranty period provided by NuSil Technology LLC (hereinafter "NuSil Technology") is 12 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 all other expressed or implied warranties, including, but not limited to, 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.

WARNINGS ABOUT PRODUCT SAFETY

NuSil Technology believes, to the best of its knowledge, that the information and data contained herein are accurate and reliable. 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

Packaging

3 oz Tube (89 mL)
6 oz Tube (177 mL)
Case (24 x 6 oz)

Warranty

12 Months

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, the user is advised to obtain available product safety information and take the necessary steps to ensure safety of use.

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