

CV3-1161

Controlled volatility pressure sensitive silicone adhesive

DESCRIPTION

- Two-part pressure sensitive adhesive
- Retains adhesive qualities in the presence of minor liquid and particulate contaminants
- Properties unaffected by normal pressure variations and high temperature exposure
- 100:1 Mix Ratio (Part A solids: Part B)

Meets or exceeds the ASTM E 595 low outgas specifications outlined in NASA SP-R-0022A and European Space Agency PSS-014-702, with a TML of $\leq 1\%$ and CVCM of $\leq 0.1\%$

APPLICATION

- For adhering and bonding silicone elastomers, metals, paper, glass, fabric, organic rubbers, some synthetics, and films such as polyester or Kapton
- For applications requiring low outgassing and minimal volatile condensable materials

PROPERTIES

Typical Properties	Average Result	Standard	NT-TM
Uncured:			
Appearance, Part A*	Translucent	ASTM D2090	002
Appearance, Part B*	White	ASTM D2090	002
Non-Volatile Content, Part A*	37%	ASTM D2288	004
Viscosity, Part A*	1,200 cP (1,200 mPas)	-	124
Cured: 20 minutes at 85°C (185°F), then 20 minutes at 175°C (347°F) (For film thicknesses of 1-10 mils)			
Release Force of PSA*	1.5 ppi (0.26 kN/m)	ASTM D1876	085
PSA Blunt Probe Test*	0.5 lbs (2.2 N)	ASTM D2979	122
Cured: 1 hour at 85°C (185°F), then 1 hour at 175°C (347°F) (To meet thickness requirements for ASTM E595)			
Collected Volatile Condensable Material (CVCM)*	0.02%	ASTM E595	072
Total Mass Loss (TML)*	0.09%	ASTM E595	072

Typical Properties	Average Result	Standard	NT-TM
UV/Visible Spectrophotometry at 250 - 1100 nm (0.005 in. film)	See Attached Graph	ASTM E275	100

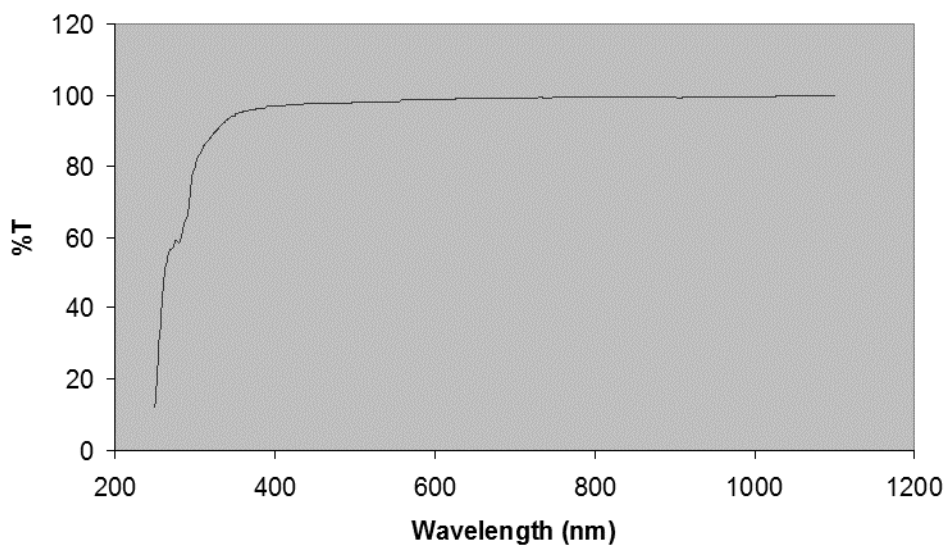
Properties tested on a lot-to-lot basis. Do not use the properties shown in this technical profile as a basis for preparing specifications Please [contact](#) NuSil Technology for assistance and recommendations in establishing particular specifications.

UV/Visible Spectrophotometry at 250 - 1100 nm

Normalized %T

CV3-1161 (Cured 0.005 in. Film)

%T at 400 nm = 96.8



INSTRUCTIONS FOR USE

Supplied in Tert-Butyl Acetate solvent, CV3-1161 can be thinned with Tert-Butyl Acetate or other suitable solvents when necessary. Apply by brushing or spraying. Obtain maximum adhesion by thoroughly cleaning substrates prior to application. Apply adhesive liberally to both substrates and allow the solvent to evaporate before making contact. Additional coats may increase the adhesive bond.

Caution: Consult the MSDS for CV3-1161 prior to use, as the solvent carrier is hazardous.

Storage

CV3-1161 Part A must be stored in area below 40°C.

CV3-1161 Part B must be stored in a freezer below 0°C.

Processing and Handling Recommendations

Please [contact](#) NuSil technical sales staff regarding questions or concerns related to a particular application.

ROHS AND REACH COMPLIANCE

Please [contact](#) NuSil Technology's Regulatory Compliance department with any questions or for further assistance

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

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Packaging

100 Gram Kit
200 Gram Kit
1 Pint Kit (430 g)
1 Gallon Kit (3.64 kg)

Warranty

12 Months

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 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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