

# Polymer Systems Technology Limited

UK & Ireland Distributor



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# CV4-1161-5

## Controlled Volatility Pressure Sensitive Adhesive Tape

### Description

- One part, double-sided pressure sensitive adhesive tape
- 0.002 mil Kapton® liner in the middle, 5 mils total tape thickness

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  $\leq 0.1\%$

### Applications

- For dust collection in and around sensitive electronic components
- For adhering and bonding metals, paper, glass, fabric, organic rubbers, some synthetics, and films such as polyester or Kapton®
- Designed for applications requiring low outgassing and minimal volatile condensable materials
- Designed to withstand extreme temperature and pressure variations

| Properties                                     | Average Result      | ASTM  | NT-TM |
|--|---------------------|-------|-------|
| Appearance                                     | Translucent         | -     | 139   |
| 180° Peel Strength                             | 2.0 ppi (0.35 kN/m) | D903  | 163   |
| Static Shear Test, 24 hours @ 175°C (347°F)    | Pass                | -     | 152   |
| Collected Volatile Condensable Material (CVCM) | 0.02%               | E 595 | 072   |
| Total Mass Loss (TML)                          | 0.55%               | E 595 | 072   |

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.

### Instructions for Use

CV4-1161-5 has a release liner on both sides of the tape. Gently peel one side of the release liner and adhere to the substrate. Once affixed to the surface, peel the top liner layer of the material. Obtain maximum adhesion by thoroughly cleaning substrates prior to application.

### RoHS and REACH Compliance

CV4-1161-5 is compliant with the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) regulation contained in Article 4(1) of the European Parliament and Council's Directive 2002/95/EC. RoHS mandates that manufacturers restrict the use of lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polychlorinated biphenyls, and polybrominated diphenyl ethers in electrical and electronic equipment.

CV4-1161-5 is also compliant with the Registration, Evaluation, and Authorization of Chemicals (REACH) regulation (European Union 1907/2006). CV4-1161-5 does not contain any of the 16 chemicals identified as Substances of Very High Concern (SVHC) by the European Chemicals Agency (ECHA), which oversees REACH compliance.

Please contact NuSil Technology's Regulatory Compliance department with any questions or for further assistance.

### Packaging

8 x 10" Sheet  
(20.32 x 25.4 cm)

### Warranty

6 Months

### Specifications

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## **Warranty Information**

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The warranty period provided by NuSil Technology LLC (hereinafter “NuSil Technology”) is 6 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.

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## **Warnings About Product Safety**

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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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## **Patent / Intellectual Property Warning**

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