English-EU

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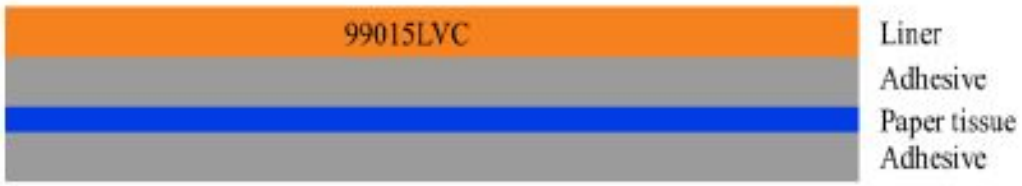
Technical Data Sheet

3M™ Low VOC Tape 99015LVC

Product Description

3M™ Low VOC Tapes with Acrylic Adhesive 98010LVC and 99015LVC are designed for automotive interior applications on commonly used foam substrates, such as PU Ester and EPDM, as well as high surface energy (HSE) substrates. The pure acrylic adhesive on both thin bonding tapes is designed to be low fog and low emission to meet the VOC requirements set forth in the JAMA and VDA278 test methods used by Automotive OEM's and tier suppliers.

98010LVC is a 3.9 mil (0.10 mm) low VOC scrim reinforced transfer tape that provides good dimensional stability for large area lamination. 99015LVC is a 5.9 mil (0.15 mm) low VOC double coated tape with tissue carrier for ease of handling during lamination and excellent die-cutting characteristic.



Technical Information Note

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Typical Physical Properties

Attribute Name	Test Method	Value
Adhesive Type		Acrylic
Total Tape Thickness	ASTM D3652	0.15 mm
Liner		58# Densified Kraft
Liner Print		Low VOC
Liner Thickness		0.08 mm
Primary Liner Color		White with red print

Typical Performance Characteristics

180° Peel Adhesion

Backing: 2 mil Aluminum Foil
Test Method: ASTM D3330

Dwell Time	Temperature	Substrate	Value
20 min	23 °C	ABS	13 N/cm [1]
20 min	23 °C	Polycarbonate (PC)	14 N/cm [1]
20 min	23 °C	Polypropylene (PP)	2.6 N/cm [1]
20 min	23 °C	Stainless Steel	13 N/cm [1]
72 h	70 °C	ABS	14 N/cm [1]
72 h	70 °C	Polycarbonate (PC)	14 N/cm [1]
72 h	70 °C	Polypropylene (PP)	2.7 N/cm [1]
72 h	70 °C	Stainless Steel	12 N/cm [1]

[1] 304 mm/min (12 in/min)

90° Peel Adhesion

Backing: 2 mil Aluminum Foil
Test Method: ASTM D3330

Dwell Time	Temperature	Substrate	Value
20 min	23 °C	ABS	2.0 N/cm [1]
20 min	23 °C	Polycarbonate (PC)	9.5 N/cm [1]
20 min	23 °C	Polypropylene (PP)	2.6 N/cm [1]
20 min	23 °C	Stainless Steel	6.0 N/cm [1]
72 h	70 °C	ABS	7.3 N/cm [1]
72 h	70 °C	Polypropylene (PP)	2.1 N/cm [1]
72 h	70 °C	Stainless Steel	14 N/cm [1]

[1] 304 mm/min (12 in/min)

Temperature: 70 °C

Attribute Name	Test Method	Value
Static Shear	ASTM D3654	10,000 min [1]

[1] 25 x 25 mm (1 in x 1 in) sample area, test terminated after 10,000 minutes

Attribute Name	Value
Short Term Temperature Resistance	121 °C [1]
Long Term Temperature Resistance	93 °C [2]

[1] Short Term (minutes, hour)
[2] Long Term (day, weeks)

Attribute Name	Value
Note	Calipers are nominal values

Typical Performance Characteristics

Fogging (Photometric method)

Test Method: SAEJ1756

Dwell Time	Value
1 h	97 % [1]
16 h	98 % [1]

[1] Fogging condensate on the glass plate determined by measuring the 60o specular gloss. The 60o specular gloss for the same glass plate is used as a reference value. The higher value indicates less fogging.

Handling/Application Information

Application Examples

- Automotive interior bonding
- Door trim and door bolster attachment
- Foam, flock and felt for BSR applications
- Gaskets and seals
- Headliner component and shade attachment
- Acoustic/Thinsulate™ attachment

Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) in the original, unopened packaging, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

Available Sizes

Attribute Name	Value
Master Width	1000, 1372, 1500 mm [1]

[1] More sizes may be available. Please talk to your local 3M representative for more information.

Automotive Disclaimer

Select Automotive Applications:
This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

Information

Precautionary Information: Refer to product label and Material Safety Data Sheet for health and safety information before using the product. For information, please contact your local 3M Office. You can click or scan QR code to see contact detail or visit www.3M.com Important Information: All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method or application. All questions of liability relating to this product are governed by the terms of the sale subject, where applicable, to the prevailing law. Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.

ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

3M™ Centre
Cain Rd, Binfield, Bracknell RG12 8HT, United Kingdom
3m.co.uk/iatd