



Technical Data Sheet

3M™ Low VOC Tape 98010LVC

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 characteristics.

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

Property	Values	Additional Information
Adhesive Type	Acrylic	
Liner	58# Densified Kraft	
Liner Thickness	0.08 mm	
Liner Color	White with red print	View
Test Name: Primary		
Total Tape Thickness (mil)	3.9 mil	View
Test Method: ASTM D3652		
Total Tape Thickness (mm)	0.1 mm	View
Test Method: ASTM D3652		
Liner Print	Low VOC	
Liner Thickness	3.2 mil	





Product Testing

Typical Performance Characteristics

Property	Values	Additional Information
90° Peel Adhesion	11.6 N/cm	View 
<p>Test Method: ASTM D3330</p> <p>Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 70C Temp F: 158F Environmental Condition: 50%RH Substrate: Stainless Steel Backing: 2 mil Aluminum Foil</p> <p>Notes: 12 in/min (300 mm/min)</p>		
90° Peel Adhesion	106 oz/in	View 
<p>Test Method: ASTM D3330</p> <p>Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 70C Temp F: 158F Environmental Condition: 50%RH Substrate: Stainless Steel Backing: 2 mil Aluminum Foil</p> <p>Notes: 12 in/min (300 mm/min)</p>		
90° Peel Adhesion	40 oz/in	View 
<p>Test Method: ASTM D3330</p> <p>Dwell/Cure Time: 20.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Stainless Steel Backing: 2 mil PET</p> <p>Notes: 12 in/min (300 mm/min)</p>		
90° Peel Adhesion	1.9701765 N/cm	View 
<p>Test Method: ASTM D3330</p> <p>Dwell/Cure Time: 20.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polypropylene (PP) Backing: 2 mil Aluminum Foil</p> <p>Notes: 12 in/min (300 mm/min)</p>		
90° Peel Adhesion	18 oz/in	View 
<p>Test Method: ASTM D3330</p> <p>Dwell/Cure Time: 20.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polypropylene (PP)</p>		

Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

Short Term Temperature Resistance	250 °F	
Short Term Temperature Resistance	121 °C	
Long Term Temperature Resistance	93 °C	
Long Term Temperature Resistance	200 °F	
Static Shear	10000 min	View 
<p>Test Method: ASTM D3654</p> <p>Notes: 1 in² sample size</p>		
Note	Calipers are nominal values	
180° Peel Adhesion	8.75634 N/cm	View 
<p>Test Method: ASTM D3330</p> <p>Dwell/Cure Time: 20.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Stainless Steel Backing: 2 mil Aluminum Foil</p> <p>Notes: 12 in/min (300 mm/min)</p>		
180° Peel Adhesion	1.86072225 N/cm	View 
<p>Test Method: ASTM D3330</p> <p>Dwell/Cure Time: 20.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polypropylene (PP) Backing: 2 mil Aluminum Foil</p> <p>Notes: 12 in/min (300 mm/min)</p>		
180° Peel Adhesion	3.83089875 N/cm	View 
<p>Test Method: ASTM D3330</p> <p>Dwell/Cure Time: 20.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: ABS</p>		

Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

Fogging (Photometric method)

92 %

View 

Test Method: SAEJ1756

Notes: 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.

Fogging (Photometric method)

94 %

View 

Test Method: SAEJ1756

Notes: 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.

90° Peel Adhesion

4.4 N/cm

View 

Test Method: ASTM D3330

Dwell/Cure Time: 20.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil PET

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

6.45780075 N/cm

View 

Test Method: ASTM D3330

Dwell/Cure Time: 20.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polycarbonate (PC)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

59 oz/in

View 

Test Method: ASTM D3330

Dwell/Cure Time: 20.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polycarbonate (PC)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

1.9701765 N/cm

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

18 oz/in

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0

Dwell Time Units: hr

Temp C: 70C

Temp F: 158F

Environmental Condition: 50%RH

Substrate: Polypropylene (PP)

Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

1.5323595 N/cm

View 

Test Method: ASTM D3330

Dwell/Cure Time: 20.0

Dwell Time Units: min

Temp C: 23C

Temp F: 72F

Environmental Condition: 50%RH

Substrate: ABS

Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

14 oz/in

View 

Test Method: ASTM D3330

Dwell/Cure Time: 20.0

Dwell Time Units: min

Temp C: 23C

Temp F: 72F

Environmental Condition: 50%RH

Substrate: ABS

Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

5.36325825 N/cm

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0

Dwell Time Units: hr

Temp C: 70C

Temp F: 158F

Environmental Condition: 50%RH

Substrate: ABS

Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

49 oz/in

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0

Dwell Time Units: hr

Temp C: 70C

Temp F: 158F

Environmental Condition: 50%RH

Substrate: ABS

Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

80 oz/in

View 

Test Method: ASTM D3330

Dwell/Cure Time: 20.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

17 oz/in

View 

Test Method: ASTM D3330

Dwell/Cure Time: 20.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polypropylene (PP)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

35 oz/in

View 

Test Method: ASTM D3330

Dwell/Cure Time: 20.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: ABS
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

5.0348955 N/cm

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: ABS
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

46 oz/in

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: ABS
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

10.2886995 N/cm

View 


Test Method: ASTM D3330

Dwell/Cure Time: 20.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polycarbonate (PC)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

94 oz/in

View 

Test Method: ASTM D3330

Dwell/Cure Time: 20.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polycarbonate (PC)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

9.96033675 N/cm

View 


Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: Polycarbonate (PC)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

91 oz/in

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: Polycarbonate (PC)
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

8.64688575 N/cm

View 

Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C
Temp F: 158F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil

Notes: 12 in/min (300 mm/min)

180° Peel Adhesion

79 oz/in


View 


Test Method: ASTM D3330

Dwell/Cure Time: 72.0
Dwell Time Units: hr
Temp C: 70C


Temp F: 158F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: 2 mil Aluminum Foil


Notes: 12 in/min (300 mm/min)

180° Peel Adhesion	1.751268 N/cm	View 
<p>Test Method: ASTM D3330</p> <p>Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 70C Temp F: 158F Environmental Condition: 50%RH Substrate: Polypropylene (PP) Backing: 2 mil Aluminum Foil</p> <p>Notes: 12 in/min (300 mm/min)</p>		

180° Peel Adhesion	16 oz/in	View 
<p>Test Method: ASTM D3330</p> <p>Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 70C Temp F: 158F Environmental Condition: 50%RH Substrate: Polypropylene (PP) Backing: 2 mil Aluminum Foil</p> <p>Notes: 12 in/min (300 mm/min)</p>		

Available Sizes

Property	Values	Additional Information
Master Width	1000, 1372, 1500 mm	View 
Notes: More sizes may be available. Please talk to your local 3M representative for more information.		

Master Width	39, 54, 59 in	View 
Notes: More sizes may be available. Please talk to your local 3M representative for more information.		

Storage and Shelf Life

Store at room temperature conditions of 65°F to 75°F (21°C to 24°C) and 40% to 60% relative humidity. If stored properly, product retains its performance and properties for 18 months from date of manufacture.

Bottom Matter

3M
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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

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40071698/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=98010LVC

ISO Statement

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

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