



# Technical Data Sheet

## 3M™ Venture Tape™ UL181A-P and UL181B-FX Aluminum Foil Tape 1581A

### Product Description

3M™ Venture Tape™ UL181A-P and US181B-FX Aluminum Foil Tape 1581A is a high temperature, high strength aluminum foil tape coated with a cold weather acrylic pressure sensitive adhesive.

### Product Features

- Conformable foil applies easily to both rigid duct board and flexible duct
- Excellent performance in demanding temperature and humidity conditions
- Excellent performance and durability over a wide range of environmental conditions
- Easy to install on site without special tools or application methods

### 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
Backing	High strength aluminum foil	
Adhesive Type	Acrylic	
Liner	Paper	
Color	Natural Aluminum	
Backing Thickness (mm)	0.05 mm	View
Test Method: ASTM D3652		
Total Tape Thickness (mil)	3.9 mil	View
Test Method: ASTM D3652		
Total Tape Thickness (mm)	0.09 mm	View

Test Method: ASTM D3652

Backing Thickness	2 mil	View 
Test Method: ASTM D3652		

### Typical Performance Characteristics

Property	Values	Additional Information
Tensile Strength	50.8 N/cm	View 

Test Method: ASTM D3759

180° Peel Adhesion	6.6 N/cm	View 
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Test Method: ASTM D3330

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

180° Peel Adhesion	60 oz/in	View 
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Test Method: ASTM D3330

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

Tensile Strength (lb/in)	29 lb/in	View 
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Test Method: ASTM D3759

Elongation at Break (%)	10 %	View 
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Test Method: ASTM D3759

Long Term Temperature Resistance	149 °C	
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Minimum Long Term Temperature Resistance	-40 °C	
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Long Term Temperature Resistance	300 °F	
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Minimum Long Term Temperature Resistance	-40 °F	
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### Available Sizes

Property	Values	Additional Information
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Standard Roll Length 55 m

Standard Roll Length 60 yd

## Certifications/Standards

- UL181A-P Listed (UL File # MH16587)
- UL181B-FX Listed (UL File # MH16587)
- ULC S102 Listed (Flame/Smoke 0/0) [ULC File # R10984]

## Storage and Shelf Life

Store in a clean, dry place. Temperature of 40-80°F (4-26°C) and 40 to 50% relative humidity are recommended.

To obtain best performance, use this product within 24 months from date of manufacture.

## Bottom Matter

3M  
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## Trademarks

3M is a trademark of 3M Company.

## Handling/Application Information

### Application Examples

- Vapor seal on reinforced fiberglass duct board
- High performance duct closure
- Sealing flexible duct to rigid duct

## References

Property	Values
3m.com Product Page	<a href="https://www.3m.com/3M/en_US/p/d/b40067911/">https://www.3m.com/3M/en_US/p/d/b40067911/</a>
Safety Data Sheet SDS	<a href="https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=1581A">https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=1581A</a>

## Family Group

Link Tags:

• 1581A

Products	Adhesive Type	Liner	Total Tape Thickness (mm)	Tensile Strength	Long Term Temperature Resistance	Minimum Long Term Temperature Resistance
1581A	Acrylic	Paper	0.09 mm	50.8 N/cm	149 °C	-40 °C

## ISO Statement

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

## Information

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