



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 
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		

180° Peel Adhesion	60 oz/in	View 
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		

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

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

Long Term Temperature Resistance	149 °C	
Minimum Long Term Temperature Resistance	-40 °C	

Long Term Temperature Resistance	300 °F	
Minimum Long Term Temperature Resistance	-40 °F	

Available Sizes

Property	Values	Additional Information
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Standard Roll Length	55 m
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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

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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	https://www.3m.com/3M/en_US/p/d/b40067911/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=1581A

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

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

Information

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