



Technical Data Sheet

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



Product Details



Regulatory Info/SDS

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

| Attribute Name | Test Method | Value |
|----------------------|-------------|-----------------------------|
| Color | | Natural Aluminum |
| Adhesive Type | | Acrylic |
| Backing | | High strength aluminum foil |
| Backing Thickness | ASTM D3652 | 0.05 mm (2 mil) |
| Total Tape Thickness | ASTM D3652 | 0.09 mm (3.9 mil) |
| Liner | | Paper |

Typical Performance Characteristics

| Attribute Name | Test Method | Temperature | Value |
|---------------------|-------------|---------------|----------------------------------|
| 180° Peel Adhesion | ASTM D3330 | 22 °C (72 °F) | 6.6 N/cm (60 oz/in) ¹ |
| Elongation at Break | ASTM D3759 | | 10 % |
| Tensile Strength | ASTM D3759 | | 50.8 N/cm (29 lb/in) |

¹ 12 in/min (300 mm/min)

| Attribute Name | Value |
|--|------------------------------|
| Long Term Temperature Resistance | 149 °C (300 °F) ¹ |
| Minimum Long Term Temperature Resistance | -40 °C (-40 °F) ¹ |

¹ Long Term (day, weeks)

Handling/Application Information

Application Examples

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

Certifications/Standards

Certifications

- 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 under normal conditions of 4° to 27°C (40° to 80°F) and 40 to 50% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 18 months from date of manufacture.

Available Sizes

| Attribute Name | Value |
|----------------------|--------------|
| Standard Roll Length | 55 m (60 yd) |

Information

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