

January, 2019

3M™ VentureClad™ Insulation Jacketing System 1577CW

Product Description

3M™ VentureClad™ Insulation Jacketing System is a zero permeability, all weather, multi-layered laminate coated with an aggressive cold weather acrylic adhesive. Superior resistance to weathering, fungi, UV and extreme environmental conditions. Designed for use as a vapor barrier for insulation cladding and jacketing applications. Available in both flat and embossed.

Product Features

- Superior adhesion in cold or hot and humid conditions temperatures.
- Bonds and seals at temperatures as cold as -10°F (-23°C).
- Zero permeability vapor barrier for insulation cladding and jacketing applications
- High puncture and tear resistant ensures longevity and durability
- Flexible and strong.
- Cuts and installs easily on-site, no special tools required.
- Available in multiple colors.



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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 | | Method |
|------------------------------------|------------------|-------|----------|
| Color | Natural Aluminum | | |
| Total Tape Thickness without liner | 0.16 mm | 6 mil | |
| Embossed | No | | |
| Puncture | 111 N | 25 lb | |
| Water Vapor Transmission | 0.00 Perms | | ASTM E96 |

Typical Performance Characteristics

| Property | Values | |
|---------------------------|---------------|---------------|
| Peel Adhesion | 8.2 N/cm | 75 oz/in |
| Tensile Strength | 140 N/cm | 80 lb/in |
| Emittance | 0.03 | |
| Service Temperature Range | -40 to 149 °C | -40 to 300 °F |

Typical Environmental Performance

Chemical Resistance: Good

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Certifications

| Product | 1577CW | 1577CW-E | 1577CW-WM | 1577CW-WME |
|--|--------|----------|-----------|------------|
| ASTM E84 Flame/Smoke Rating | | | 25/45 | 25/45 |
| UL723 Classified Flame/Smoke Rating (UL file #R10984) | 25/25 | 25/25 | | |
| CAN/ULC S102 Classification Flame/Smoke Rating | 25/25 | 25/25 | 25/25 | |
| Meets FDA Compositional requirements for indirect food contact (21CFR 175.105 and 21CFR175.125; FDA: Indirect Food Additives; Adhesives and Components of coatings) | | | X | X |
| Approved by Canadian Food Inspection Agency for use in food processing facilities as vapor barrier for insulation cladding and jacketing | | | X | X |
| Contains Mold Inhibiting Agents | X | X | | |
| Passes ASTM C1338 Fungi Resistance Testing | X | X | | |
| Passes ASTM C1775 Specification for Laminate Protective Jacketing for Outdoor Applications | X | X | | |
| U.S. Coast Guard Approval | X | X | X | X |
| IMO Resolution A653 (16) | X | X | X | X |
| IMO Resolution MSC61 (67) Annex 2 IMO Resolution MSC 61 (67) Annex 1 Part 2 and Annex 2 | X | X | X | X |
| BS476 parts 6 & 7 Class "O" | X | X | X | X |
| DIN 4102-1 | X | X | | |
| SANS 10177 Opart 3 Class 1 | X | X | | |
| NYC MEA | X | X | | |
| Meets CINI 3.3-12 Requirement | X | X | | |
| Japan Building Standard Law Article 2, Clause 9 | X | X | | |

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.

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Information

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Trademarks

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References

Safety Data Sheet (SDS)

https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=1577CW

Family Group

| | 1577CW | 1577CW-E | 1577CW-WM | 1577CW-WME |
|---|------------------|------------------|-----------|------------|
| Color | Natural Aluminum | Natural Aluminum | White | White |
| Total Tape Thickness without liner (mm) | 0.16 | 0.23 | 0.18 | 0.23 |

ISO Statement

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

