



Technical Data Sheet

3M™ VentureClad™ 1579GCW-EMJ Insulation Jacketing Tape



[Product Details](#)



[Regulatory Info/SDS](#)

Product Description

3M™ VentureClad™ Insulation Jacketing System is a heavy duty, zero permeability, all weather, multi-layered laminate coated with an aggressive cold weather acrylic adhesive. Excellent resistance to weathering, 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

- Excellent adhesion in cold or hot and humid conditions
- Aggressive acrylic adhesive offers instant adhesion in temperatures as low as -10°F (-23°C)
- Zero permeability vapor barrier for insulation cladding and jacketing applications
- Reinforced for very high puncture and tear resistance to ensure long life and durability
- Flexible and strong
- Cuts and installs easily on-site, no special tools required

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 | | Silver |
| Embossed | | No |
| Total Thickness | ASTM D3652 | .38 mm (15 mil) |
| Puncture | | 245 N (55 lb) |
| Water Vapor Transmission | ASTM E96 | 0 US Perms |

Typical Performance Characteristics

| Attribute Name | Test Method | Dwell Time | Temperature | Test Condition | Value |
|--------------------|-------------|------------|---------------|-------------------|------------------------------------|
| 180° Peel Adhesion | ASTM D3330 | 1 min | 22 °C (72 °F) | | 10.6 N/cm (100 oz/in) ¹ |
| Tensile Strength | ASTM D882 | | | Machine Direction | 14.2 N/cm (130 lb/in) |

¹ 12 in/min (300 mm/min)

| Attribute Name | Value |
|--|------------------------------|
| Long Term Temperature Resistance | 120 °C (248 °F) ¹ |
| Minimum Long Term Temperature Resistance | -40 °C (-40 °F) ¹ |

¹ Long Term (day, weeks)

Typical Environmental Characteristics

Chemical and Environmental Exposure

| | | |
|----------------------------|--|---|
| Acids | Acetic acid (all concentrations) 50% formic acid 10% hydrochloric acid 30% hydrochloric acid 10% and 35% hydrofluoric acid 10% nitric acid 65% and 100% nitric acid 30% and 85% phosphoric acid 20% sulphuric acid Sulphur dioxide gas, dry 80% and above sulphuric acid | Resistant Resistant Resistant Partially resistant Resistant Resistant Not resistant Resistant Partially resistant Resistant Not resistant |
| Aldehydes | Acetaldehyde Formaldehyde | Resistant Resistant |
| Aqueous Alkaline Solutions | Ammonium hydroxide Calcium hydroxide Sodium hydroxide | Not resistant Partially resistant Not resistant |
| Chlorinated Hydrocarbons | Carbon tetrachloride Chlorinated biphenyls Chloroform Trichloroethylene | Partially resistant Partially resistant Resistant Resistant |
| Esters | Ethyl acetate | Resistant |
| Hydrocarbons | Aliphatic hydrocarbons Benzene Gasoline (petrol) Mineral oils Toluene Xylene | Resistant Resistant Resistant Resistant Resistant Resistant |
| Miscellaneous Substances | Chlorine Hydrogen peroxide Oxygen Water* | Resistant Resistant Resistant Resistant |
| Other Organic Solutions | Acetone Diethyl ether Nitrobenzene Phenol | Resistant Resistant Not resistant Not resistant |
| Salt Solutions | Alkaline carbonates Bichromates Cyanides Fluorides | Resistant Resistant Resistant Resistant |

*Chemical resistance info based in part on third party test data of the product backing.

Environmental Resistance

Excellent

Certifications/Standards

Certifications

| Product | 1579GCW-EMJ | 15779GCWE-EMJ | 1579GCW-WM | 1579GCW-WME |
|--|-------------|---------------|------------|-------------|
| ASTM E84 Flame/Smoke Rating | 10/50 | | 20/25 | 20/25 |
| UL723 Classified Flame/Smoke Rating (UL file #R10984) | | | | |
| CAN/ULC S102 Classification Flame/Smoke Rating | | | 25/25 | |
| Meets FDA Compositional requirements for indirect food contact (21 CFR 175.105 and 21CFR175.125; FDA: Indirect Food Additives: Adhesives and Components of coatings) | X | X | X | X |
| Agency for use in food processing facilities as vapor barrier for insulation cladding and jacketing | X | X | X | X |
| Contains Mold Inhibiting Agents | X | X | | |
| Passes ASTM C1338 Fungi Resistance Testing | X | X | 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 |

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.

Information

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ISO Statement

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

3M
Industrial Specialties Division
3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-362-3550

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