

February, 2021

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	112 N	25 lb	
Water Vapor Transmission	0.00 Perms		ASTM E96

Typical Performance Characteristics

Property	Values		Method	Dwell/Cure Time	Dwell Time Units	Temp C	Temp F
180° Peel Adhesion	8.2 N/cm	75 oz/in	ASTM D3330	72	hr	23C	73F
Tensile Strength	140 N/cm	80 lb/in					
Emittance	0.03						
Service Temperature Range	-40 to 149 °C	-40 to 300 °F					

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Typical Environmental Performance

Environmental Resistance: Good

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	25/25	25/25
CAN/ULC S102 Classification Flame/Smoke Rating	25/25	25/25	25/25	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
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		

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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.

Trademarks

3M and VentureClad are trademarks of 3M Company.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/company-us/all-3m-products/~/%3M-VentureClad-Insulation-Jacketing-Tape-1577CW?N=5002385+3293084325&rt=rud
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

ISO Statement

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

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Information

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