



VentureClad™ Insulation Jacketing Tapes

1577 Series:

1577CW • 1577CW-E • 1577CW-CM • 1577CW-CME

1577CW-BM • 1577CW-WM • 1577CW-WME • 1577CWT

Technical Data

February, 2015

Product Description A zero permeability, all weather, multi-layered laminate coated with an aggressive cold weather acrylic adhesive, superior resistance to weathering, mold, UV and extreme environmental conditions. Designed for use as a vapour barrier for insulation cladding and jacketing applications. Available in both flat and embossed with many varieties. Also available without adhesive.

-
- Features**
- Zero permeability vapour barrier for insulation cladding and jacketing applications
 - Cold weather acrylic adhesive applies easily at temperatures as cold as -23°C (-10°F)
 - Puncture and Tear resistant
 - Self Adhesive material installs easily with no offsite fabrication required
 - Cuts and installs easily on-site, no special tools required
 - Flexible, strong, reinforced insulation cladding
 - 3M™ VentureClad™ Insulation Jacketing Tapes 1577CW and 1577CW-E are listed as cladding option for 3M™ Interam™ Endothermic Mat E-5A-4 (System meets UL1709 Standards – UL Design Number BYBU.XR202)

VentureClad™ Insulation Jacketing Tapes

1577 Series:

1577CW • 1577CW-E • 1577CW-CM • 1577CW-CME

1577CW-BM • 1577CW-WM • 1577CW-WME • 1577CWT

Typical Physical Properties **Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.**

Product	1577CW	1577CW-E	1577CW-CM	1577CW-CME	1577CW-BM	1577CW-WM	1577CW-WME	1577CWT
Colour	Natural Aluminum	Natural Aluminum	Natural Aluminum	Natural Aluminum	Black	White	White	White
Embossed	No	Yes	No	Yes	No	No	Yes	No
Total Product Thickness (without Liner)	7.0 mils (0.18 mm)	14.0 mils (0.36 mm)	8.0 mils (0.20 mm)	19.5 mils (0.50 mm)	8.0 mils (0.20 mm)	8.0 mils (0.20 mm)	19.5 mils (0.50 mm)	7.0 mils (0.18 mm)
Peel Adhesion	65 oz/in (18.0 N/25 mm)	65 oz/in (18.0 N/25 mm)	65 oz/in (18.0 N/25 mm)	65 oz/in (18.0 N/25 mm)	65 oz/in (18.0 N/25 mm)	65 oz/in (18.0 N/25 mm)	65 oz/in (18.0 N/25 mm)	65 oz/in (18.0 N/25 mm)
Shear Adhesion	>24 hrs@2.2 psi (>24 hrs@15.2 kPa)	>24 hrs@2.2 psi (>24 hrs@15.2 kPa)	>24 hrs@2.2 psi (>24 hrs@15.2 kPa)	>24 hrs@2.2 psi (>24 hrs@15.2 kPa)	>24 hrs@2.2 psi (>24 hrs@15.2 kPa)	>24 hrs@2.2 psi (>24 hrs@15.2 kPa)	>24 hrs@2.2 psi (>24 hrs@15.2 kPa)	>24 hrs@2.2 psi (>24 hrs@15.2 kPa)
Tensile Strength	69 lb/in (312 N/25 mm)	69 lb/in (312 N/25 mm)	69 lb/in (312 N/25 mm)	69 lb/in (312 N/25 mm)	69 lb/in (312 N/25 mm)	70 lb/in (316 N/25 mm)	69 lb/in (312 N/25 mm)	44 lb/in (199 N/25 mm)
Elongation	80%	80%	80%	80%	80%	80%	80%	80%
Service Temperature	-70° to 149°C (-94° to 300°F)	-70° to 149°C (-94° to 300°F)	-70° to 120°C (-94° to 248°F)	-70° to 120°C (-94° to 248°F)	-70° to 120°C (-94° to 248°F)	-70° to 120°C (-94° to 248°F)	-70° to 120°C (-94° to 248°F)	-70° to 149°C (-94° to 300°F)
Puncture	25 lbs (111N)	25 lbs (111N)	35 lbs (155N)	35 lbs (155N)	30 lbs (133N)	35 lbs (155N)	35 lbs (155N)	N/A
Emittance	0.03	0.03	N/A	N/A	0.84	0.8	0.82	0.79
WVTR	0.00 perm	0.00 perm	0.00 perm	0.00 perm	0.00 perm	0.00 perm	0.00 perm	0.00 perm
Chemical Resistance	Good	Good	Better	Better	Better	Better	Better	Best

VentureClad™ Insulation Jacketing Tapes

1577 Series:

1577CW • 1577CW-E • 1577CW-CM • 1577CW-CME

1577CW-BM • 1577CW-WM • 1577CW-WME • 1577CWT

Classifications

Product	1577CW	1577CW-E	1577CW-CM	1577CW-CME	1577CW-BM	1577CW-WM	1577CW-WME	1577CWT
ASTM E84 Flame/Smoke Rating			25/30	20/20	25/50	25/45	25/45	15/5
UL723 Classified Flame/Smoke Rating (UL file #R10984)	10/20	10/20						
ULC S102 Classification Flame/Smoke Rating	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	X
Approved by Canadian Food Inspection Agency for use in food processing facilities as vapour barrier for insulation cladding and jacketing						X	X	X
Contains Mold Inhibiting Agents						X		
Passes ASTM C1338 Fungi Resistance Testing	X	X	X	X	X	X	X	
U.S. Coast Guard Approval	164.112/63/0	164.112/63/0				164.112/1121/WCL MED0290TE	164.112/1121/WCL MED0290TE	
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						
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						

VentureClad™ Insulation Jacketing Tapes

1577 Series:

1577CW • 1577CW-E • 1577CW-CM • 1577CW-CME

1577CW-BM • 1577CW-WM • 1577CW-WME • 1577CWT

Storage	Store in a clean, dry place. Temperature of 4-26°C (40-80°F) and 40 to 50% relative humidity are recommended.
Shelf Life	To obtain best performance, use this product within 12 months from date of manufacture.
Technical Information	The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.
Product Use	Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.
Warranty, Limited Remedy, and Disclaimer	Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.
Limitation of Liability	Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

ISO 9001

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



3M Industrial Adhesives and Tapes Division
3M Canada
London, ON N6A 4T1
1-800-3M-HELPS
www.3M.ca

3M, VentureClad and Interam are trademarks of 3M. Used under license in Canada.
© 2016, 3M. All rights reserved. BA-16-21572 160505671 E