



# VentureClad™ Insulation Jacketing Tapes

## 1577 Series:

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

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

**Technical Data**

**February, 2015**

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**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.

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- 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)

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**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
<b>Colour</b>	Natural Aluminum	Natural Aluminum	Natural Aluminum	Natural Aluminum	Black	White	White	White
<b>Embossed</b>	No	Yes	No	Yes	No	No	Yes	No
<b>Total Product Thickness (without Liner)</b>	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)
<b>Peel Adhesion</b>	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)
<b>Shear Adhesion</b>	>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)
<b>Tensile Strength</b>	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)
<b>Elongation</b>	80%	80%	80%	80%	80%	80%	80%	80%
<b>Service Temperature</b>	-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)
<b>Puncture</b>	25 lbs (111N)	25 lbs (111N)	35 lbs (155N)	35 lbs (155N)	30 lbs (133N)	35 lbs (155N)	35 lbs (155N)	N/A
<b>Emittance</b>	0.03	0.03	N/A	N/A	0.84	0.8	0.82	0.79
<b>WVTR</b>	0.00 perm	0.00 perm	0.00 perm	0.00 perm	0.00 perm	0.00 perm	0.00 perm	0.00 perm
<b>Chemical Resistance</b>	Good	Good	Better	Better	Better	Better	Better	Best

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### 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						

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<b>Storage</b>	Store in a clean, dry place. Temperature of 4-26°C (40-80°F) and 40 to 50% relative humidity are recommended.
<b>Shelf Life</b>	To obtain best performance, use this product within 12 months from date of manufacture.
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ISO 9001

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



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