



ThermaBarrier® TM

Technical Data Sheet

Thermal Insulation Seaming Tapes



DC-M194A

All Weather Double Sided Polyester Tape

Use for lap seals on laminated insulation and reflective insulation

1.41 in x 60 yd | 36 mm x 55 m
1.41 in x 360 yd | 36 mm x 329 m
1.89 in x 60 yd | 48 mm x 55 m

STEEL ADHESION 40 oz/in

TOTAL THICKNESS 3.6 mil

SERVICE TEMPERATURE -40°F to 176°F
-40°C to 80°C



PE-M4535

All Weather Construction Seaming Tape

Use to seam and seal housewrap, insulated sheathing products and polyethylene vapor barriers

Colors: white, silver and red

1.89 in x 54.6 yd | 48 mm x 50 m

STEEL ADHESION 60 oz/in

TOTAL THICKNESS 3.38 mil

SERVICE TEMPERATURE -40°F to 148°F
-40°C to 120°C



Product Description:

ThermaBarrier®™ Thermal Insulation SeamingTapes by EchoTape are available in three (3) varieties: Double-sided polyester film tape, White Polyethylene, and Metalized (Silver) Polyethylene.

Used extensively in commercial construction including metal building insulation applications, it is versatile enough to work in many other applications due to its cold weather performance features. Formulated with a proprietary cold weather adhesive, it is engineered to adhere to a wide range of building materials and surfaces including house wrap, exterior and rigid insulation, sheathing, vapor barriers and a variety of underlayments.

Using breakthrough technology, our exclusively formulated acrylic adhesives are engineered to meet the rigid requirements of contractors and builders working on residential and commercial buildings. Whether you're working in extreme weather conditions or simply need maximum performance, our specialty tapes combine exceptionally high shear strength with both high tack and cold weather properties, ensuring a secure, weather tight seal in virtually any environmental condition.

These specialty tapes exceed the highest standards for reliability, precision and superior results. From air sealing to patching, bonding or seaming our full line of tapes are designed for insulation applications for today's construction professionals.

Application

Start with a clean surface. Dust, dirt, oil, and debris will keep any tape from sticking, including double-sided and seaming tapes.

Affix the Double-sided Tape.

Apply Pressure. See below.

Peel back the release liner.

Press the thermal insulation barrier / housewrap overlap into place using a squeegee or roller.

Seal the seams. Ensure that the tape is wide enough to sufficiently cover the seam.

Apply Pressure. Pressure sensitive adhesive tape needs pressure to form a proper bond. Without it, the tape may gap, wrinkle or lift, all of which will allow unwanted air or water incursions.

Using a squeegee, roller or J-roller, apply firm pressure to the tape in upward and downward strokes, making sure to smooth any wrinkles or gaps. The appropriate amount of pressure will cause the aggressive adhesive on the seam tape to form a permanent bond within 72 hours.

Consider Using a Tape Gun: A tape gun allows you to apply the seaming tape more easily, quickly and evenly than by hand.

Don't make the mistake of thinking that a tape gun replaces a roller or squeegee. It doesn't. You still need that additional pressure to really seal the overlap. It's a step most contractors skip, and it's almost always a costly or even litigious mistake.

Cut to appropriate length.

DC-M194A

All Weather/Cold Weather Double Sided Polyester Tape

DC-M194A is a high performance double-sided polyester film (PET) adhesive tape, coated with a specially engineered acrylic adhesive designed to work exceptionally well in cold weather temperatures. Used extensively in commercial construction including metal building insulation applications, it is versatile enough to work in many other applications due to its cold weather performance features.

Application

- Use for lap seals on laminated, reflective and pipe jacketing insulation
- Use to mount smooth surface substrates in freezers
- Use for permanently bonding foams, plastics, metals and composite materials.
- Use for insulation mounting

Features & Benefits

- Hand tearable
- Hand or machine applied
- Excellent holding power
- Specially formulated cold weather adhesive
- Bonds well to a variety of surfaces
- PET carrier allows for UV resistance
- Performs well under a broad range of environmental conditions

Storage & Usage Conditions

Store tape in its original packaging away from direct sunlight and in a cool and dry area. For optimum performance, tape should be used within 12 months of date of shipment. Tape works best when applied to a surface that is clean, dry and free of grease, oil or other contaminants.

Sizes

1.41 in x 60 yd. | 36 mm x 55 m

1.41 in x 180 yd. | 36 mm x 165 m

1.41 in x 360 yd. | 36 mm x 330 m

Technical Data

Carrier	Polyester Film
Adhesive	Acrylic
Release Liner	Siliconized Paper
Total Thickness	3.6 mils
Tensile	7.7 lbs/in
Adhesion	40 oz/in
Application Temperature Range	-4°F to 176°F (-20°C to 90°C)
Service Temperature Range	-40°F to 176°F (-40°C to 80°C)
Elongation	75%
Color	Transparent



The information cited is in good faith and has been established from sources held to be secure and reliable. The values listed are typical properties. Individual rolls may vary slightly from these values. All ECHOtape products are warranted to be free of defects at time of shipment. Many factors can affect the use and performance of a product in a particular application and the user must, by test or otherwise, determine suitability for purpose; Edelstein makes no representation or warranty, express or implied, concerning any application and usage of its products. If ECHOtape product is proved to be defective, the exclusive remedy, shall be for Edelstein to replace the defective product. ECHOtape shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including but not limited to, contract, negligence, warranty or strict liability.

DC-M155A, DC-M194A Tape

Safety Data Sheet

Company: ECHOtape 1-800-461-8273	Date: May 22, 2015
SECTION 1: IDENTIFICATION	
Product Name	DC-M155A, DC-M194A
Product Use	Bonding and Splicing a variety of Substrates
SECTION 2: HAZARDS IDENTIFICATION	
Products should not represent a health or safety hazard under recommended or normal use. However misuse of these products may affect performance and present a potential health or safety hazard	
Hazard Designation	None Applicable
Information pertaining to particular dangers for man and environment	None Applicable
Classification system	The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.
Additional Information	The product evidently does not contain any organically bonded halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS	
Backing	Polyester
Adhesive	Mixture of poly acrylic acid ester with terpen phenolic resin
Liner	Double sided silicone coated paper
SECTION 4: FIRST AID MEASURES	
General Information	No special measures required
Eye(s)	No need for first aid is anticipated
Skin contact	No need for first aid is anticipated
Ingestion	No need for first aid is anticipated
Inhalation	No need for first aid is anticipated
SECTION 5: FIRE HAZARDS	
Flash Point	Not applicable
Suitable Extinguishing Agents	CO ₂ , extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam
Special Hazards caused by Materials, its products of combustion or flue gases	Nitrogen Oxides (Nox) Carbon monoxide (CO)
Protective equipment	No special measures required
Additional information	None

DC-M155A, DC-M194A Tape

Safety Data Sheet

SECTION 6: ACCIDENTAL RELEASE MEASURES	
Person-related safety precautions	Not required
Measures for environmental protection	No special measures required
Measures for cleaning / collecting	Collect mechanically
Additional information	No dangerous materials are released
SECTION 7: HANDLING AND STORAGE	
Information for safe handling	No special measures required
Information about protection against explosions and fires	No special measures are required
Requirements to be met by storerooms and containers	No special requirements
Information about storage in one common storage facility	Not required
Further information about storage conditions	None
Storage class according to regulation on inflammable liquids	None
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION	
Additional information about design of technical systems	No further data, see item 6
Components with critical values that require monitoring at the workplace	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information	The lists that were valid during the compilation were used as a basis
General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals
Breathing Equipment	Not required
Eye Protection	Not required
Protections for hands	Not required
Body Protection	Not required

DC-M155A, DC-M194A Tape

Safety Data Sheet

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
Form	Solid material
Colour	Colourless
Smell	Odourless
Melting Point / Melting Range	Not determined
Boiling Point / Boiling Range	Not determined
Flash Point	Not applicable
In flammability (solid, gaseous)	Not applicable
Ignition Temperature	Not applicable
Self-In flammability	Product is not self igniting
Danger of Explosion	Product is not explosive
Density	Not determined
Solubility in / Miscibility with water	Unsoluble
Organic Solvents	<1%
Solids Content	100%
SECTION 10: STABILITY AND REACTIVITY	
Thermal decomposition / Conditions to be avoided	No decomposition if used accordingly
Dangerous Reactions	No dangerous reactions known
Dangerous products of composition	No dangerous decompositions products known
SECTION 11: TOXICOLOGICAL INFORMATION	
Primary irritant on skin	No irritant effect
Primary irritant on eyes	No irritant effect
Sensitization	No sensitizing effect known
Additional Toxicological Information	The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided us.
SECTION 12: ECOLOGICAL INFORMATION	
General Notes	Water hazard class 0 (self-assessment): generally not hazardous for water

DC-M155A, DC-M194A Tape

Safety Data Sheet

SECTION 13: DISPOSAL CONSIDERATIONS	
Product Recommendation	Smaller quantities can be disposed with household garbage
Unclean Packaging Recommendation	Disposal must be made according to official regulations
SECTION 14: TRANSPORT INFORMATION	
Transport / Additional Information	Not Dangerous according to the above specifications
SECTION 15: REGULATORY INFORMATION	
Designation according to EC guidelines	Observe the normal safety regulations when handling chemicals. The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV)
SECTION 16: OTHER INFORMATION	
These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.	

Warranty:

All ECHOtape products are warranted to be free of defects at the time of shipment from our plant. ECHOtape makes no warranty expressed or implied concerning the usage of its tapes. The user shall assume all risks and liability for any loss, damage or expense arising directly or indirectly as a result of the tapes.

PE-M4535

All Weather Construction Seaming Tape

PE-M4535 is a next generation seaming tape for the construction professional looking for superior performance. Formulated with a proprietary cold weather adhesive, it is engineered to adhere to a wide range of building materials and surfaces including house wrap, exterior and rigid insulation, sheathing, vapor barriers and a variety of underlayments. Made from an advanced polyester backing, it is extremely strong and easy to apply. Available in red, silver and white, it is a versatile product used in a wide variety of building envelope sealing applications.

Application

- Use to seam the building envelope
- Use to seam house wrap
- Use to seam a variety of insulation including polyisocyanurate and reflective insulation
- Use to seam exterior sheathing
- Use to seam vapor barriers including polyethylene films
- Use to seam a variety of flooring and roofing underlayments

Features & Benefits

- Tape is hand tearable and easy to use in the field
- Strong and durable holding power
- Excellent cold temperature adhesion to -4°F
- Minimum 90 day UV resistance
- Instant tack on a wide variety of materials that strengthens over time
- Made from an advanced polyester film (PET)

- Water and moisture resistant
- Good conformability to irregular surfaces
- Colors allow for easy inspection

Storage & Usage Conditions

Store tape in its original packaging away from direct sunlight and in a cool and dry area. For optimum performance, tape should be used within 12 months of date of shipment. Tape works best when applied to a surface that is clean, dry and free of grease, oil or other contaminants.

Sizes

1.89 in x 54.6 yd | 48 mm x 50 m

Technical Data

Carrier	PET Film
Adhesive	Acrylic
Total Thickness	3.38 mils
Tensile	20 lbs/in
Adhesion	60 oz/in
Application Temperature	-4°F to 105°F (-20°C to 40°C)
Service Temperature	-40°F to 148°F (-40°C to 120°C)
Color	White, silver, red



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Company: ECHOtape 1-800-461-8273	Date: October, 2018
SECTION 1: IDENTIFICATION	
Product Name	PE-M4520, PE-M4530, PE-M4531, PE-M4535, PE-M4538
Product Use	Bonding a variety of substrates
SECTION 2: HAZARDS IDENTIFICATION Products should not represent a health or safety hazard under recommended or normal use. However misuse of these products may affect performance and present a potential health or safety hazard	
Hazard Designation	None Applicable
Information pertaining to particular dangers for man and environment	None Applicable
Classification system	The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.
Additional Information	The product evidently does not contain any organically bonded halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS	
Backing	Polyester
Adhesive	Acrylic solvent
Liner	N/A
SECTION 4: FIRST AID MEASURES	
General Information	No special measures required
Eye(s)	No need for first aid is anticipated
Skin contact	No need for first aid is anticipated
Ingestion	No need for first aid is anticipated
Inhalation	No need for first aid is anticipated
SECTION 5: FIRE HAZARDS	
Flash Point	Not applicable
Suitable Extinguishing Agents	CO ₂ gas, sand/earth, regular foam, water
Special Hazards caused by Materials, its products of combustion or flue gases	Nitrogen oxides (NO _x) Carbon monoxide
Protective equipment	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes
Additional information	None

SECTION 6: ACCIDENTAL RELEASE MEASURES	
Person-related safety precautions	Not required
Measures for environmental protection	No special measures required
Measures for cleaning / collecting	Collect mechanically
Additional information	No dangerous materials are released
SECTION 7: HANDLING AND STORAGE	
Information for safe handling	No special measures required
Information about protection against explosions and fires	No special measures required
Requirements to be met by storerooms and containers	No special requirements
Information about storage in one common storage facility	Not required
Further information about storage conditions	None
Storage class according to regulation on inflammable liquids	None
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION	
Additional information about design of technical systems	No further data, see item 6
Components with critical values that require monitoring at the workplace	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information	The lists that were valid during the compilation were used as a basis
General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals
Breathing Equipment	Not required
Eye Protection	Not required
Protections for hands	Not required
Body Protection	Not required

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
Form	Solid material
Colour	Colourless
Smell	Odourless
Melting Point / Melting Range	Not determined
Boiling Point / Boiling Range	Not determined
Flash Point	Not applicable
In flammability (solid, gaseous)	Not applicable
Ignition Temperature	Not determined
Self-In flammability	Product is not self igniting
Danger of Explosion	Product is not explosive
Density	Not determined
Solubility in / Miscibility with water	Insoluble
Organic Solvents	<1%
Solids Content	100%
SECTION 10: STABILITY AND REACTIVITY	
Thermal decomposition / Conditions to be avoided	No decomposition if used accordingly
Dangerous Reactions	No dangerous reactions known
Dangerous products of decomposition	No dangerous decomposition products known
SECTION 11: TOXICOLOGICAL INFORMATION	
Primary irritant on skin	No irritant effect
Primary irritant on eyes	No irritant effect
Sensitization	No sensitizing effect known
Additional Toxicological Information	This product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided us.
SECTION 12: ECOLOGICAL INFORMATION	
General Notes	Water hazard class 0 (self-assessment): generally not hazardous for water

SECTION 13: DISPOSAL CONSIDERATIONS

Product Recommendation	Smaller quantities can be disposed with household garbage
Unclean Packaging Recommendation	Disposal must be made according to official regulations

SECTION 14: TRANSPORT INFORMATION

Transport / Additional Information	Not Dangerous according to the above specifications
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SECTION 15: REGULATORY INFORMATION

Designation according to EC guidelines	Observe the normal safety regulations when handling chemicals. The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV)
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SECTION 16: OTHER INFORMATION

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.