



## Technical Data Sheet

### Ideal Tape® Ideal Shield™ Gloss White Jacketing

#### PRODUCT DESIGN

Ideal Shield is a multifunctional, self-adhesive laminate protective jacket for outdoor applications. It provides a total vapor barrier over insulation on rooftop duct work, piping, and equipment. Our unique design offers repositioning and easy installation. Ideal Shield is an all-weather jacketing system that delivers savings in time, labor, and costs. It can also be used as a heavy-duty patch and repair tape and as a strapping tape for subsea pipe-in-pipe insulation.

#### PERFORMANCE FEATURES

- Meets ASTM C1775, Class 2
- Tested in accordance with UL 723
- Zero perm vapor barrier
- 10 year warranty
- Application temperature -20°F to 160°F
- Service temperature -70°F to 250°F
- Compliant with FDA regulation CFR 175.105 for indirect food contact

| PHYSICAL PROPERTIES                                        | VALUE       | TEST METHOD                 |
|------------------------------------------------------------|-------------|-----------------------------|
| Thickness, mils (μm)                                       | 8 (203)     | PSTC-133                    |
| WVTR, perm (metric perm)                                   | 0.00 (0.00) | ASTM E96 Procedure B        |
| Puncture, lbs (N)                                          | 29 (129)    | ASTM D1000                  |
| Mullen Burst, psi (kPa)                                    | 220 (1,517) | ASTM D774                   |
| Tensile Strength, lbs (N/mm)                               | 65 (11)     | ASTM D882                   |
| Peel Adhesion, oz/in (N/m)                                 | 85 (930)    | PSTC-101                    |
| Low Temperature Exposure, °F (°C)                          | -40 (-40)   | ASTM C1263                  |
| High Temperature Exposure, °F (°C)                         | 240 (116)   | ASTM C1263                  |
| Dimensional Stability (%)                                  | 0.15        | ASTM D1204                  |
| Weather Resistance, Pass/Fail                              | Pass        | ASTM G154, cycle 1 1000 hrs |
| Water Resistance, Pass/Fail                                | Pass        | 24 hrs @ 73°F (23°C )       |
| Fungi Resistance, Pass/Fail                                | Pass        | ASTM C1338                  |
| Thermal Emittance                                          | 0.89        | ASTM C1371                  |
| Surface Burning Characteristics, Flame Spread/Smoke Devel- | ≤25/50      | ASTM E84                    |

All product properties are measured in accordance with Pressure Sensitive Tape Council and/or ASTM test methods. The physical properties listed above are typical values and are not to be construed as specifications. Our suggestions and recommendations for use are based on tests we believe to be reliable. However, the purchaser must determine the suitability of the product for his intended use. Ideal Tape Co., assumes no liability for claims beyond the replacement value of our product proved to be defective. Note: Tape should be stored in its original packaging in a cool, dry area (60°F to 80°F and 50% relative humidity) away from direct sunlight. Tape should be used within 24 months from the date of manufacture. Application surfaces should be clean, dry and free of grease, oil or other contaminants. VB 010926

ABI Tape®

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**IDEAL SHIELD™**