Technical Data Sheet

Ideal Tape® Ideal Shield™ Flat Aluminum

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. When a specification allows for "or equivalent" products, or where Ideal Seal 777 is already specified, Ideal Shield Jacketing is both the equivalent and replacement.

PERFORMANCE FEATURES

- 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

PHYSICAL PROPERTIES	VALUE	TEST METHOD
Thickness, mils (µm)	9.6 (244)	PSTC-133
WVTR, perm (metric perm)	0.00 (0.00)	ASTM E96 Procedure B
Puncture, lbs (N)	10.5 (47)	ASTM D1000
Mullen Burst, psi (kPa)	60 (414)	ASTM D774
Tensile Strength, lbs/in (N/mm)	30 (5.25)	ASTM D882
Peel Adhesion, oz/in (N/m)	70 (766)	PSTC-101
Low Temperature Exposure, °F (°C)	-40 (-40)	ASTM C1263
High Temperature Exposure, °F (°C)	250 (121)	ASTM C1263
Dimensional Stability (%)	<0.2	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	<0.05	ASTM C1371
Surface Burning Characteristics, Flame Spread/Smoke Developed	≤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

IDEAL SHIELD™

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