PITTWRAP®
Z55 JACKETING

Typical Properties

PROPERTY	TEST METHOD	SI	ENGLISH
Color		Aluminum/White	
Weight (Nominal)		0.45 kg/m²	0.09 lb/ft²

Application Temperature
  Maximum
  Minimum
		45˚C
		10˚C
			113˚F
			50˚F

Service Temperature[2]
  Maximum
  Minimum
		104˚C
		-75˚C
			220˚F
			-103˚F

Thickness, Total		55 microns	2.17 mils
Permeance	ASTM E96 Procedure A	0.031 ng/Pa • s • m/m²	0.00054 perm
Tensile Strength	ASTM D882	368.33 N/cm (MD) 403.36 N/cm (XD)	210.321927 lb/in 230.324579 lb/in
Elongation % min	ASTM D882	24%	
Dimensional Stability	ASTM D1204	<0.25%	
Puncture Resistance	ASTM D1000	106.75 N	24 lbf
Mold/Mildew Resistance	ASTM C1338	Pass	
Surface Water Resistance	ASTM D3285	Pass	
Elevated Temperature & Humidity Resistance	ASTM C1258	Pass	
Flame Spread/ Smoke Development	ASTM E84	<25/50	
Burst Strength	ASTM D3786	723.95 kPa	105 psi

2 Service temperature limits are derived from laboratory evaluation of the product under conditions that simulate real-world applications. Variations in substrates, loading conditions, or other external factors not explicitly covered by our guide specifications may further limit service temperature. Always follow the appropriate Owens Corning guide specifications, product data sheets, and application instructions for suitability for use recommendations for specific applications.

Description

PITTWRAP® Z55 Jacketing is a reversible, three-ply membrane consisting of 18 micron white PET, 25 micron aluminum, and 12 micron clear PET used for protecting FOAMULAR® XPS Pipe Insulation. PITTWRAP® Z55 Jacketing meets the requirements of ASTM C1136[1], Type IX.

1 ASTM C1136: Specification for Flexible, Low Permeance Vapor Retarders for Thermal Insulation.

Application

Always read and understand the information contained within the product data sheet and safety data sheet before attempting to use this product. If you have questions regarding fitness of use of this product for an application, consult Owens Corning.

Substrate Preparation: All surfaces should be clean and dry and free of heavy rust and loose scale. Insulation should be secured to the pipe with fiberglass-reinforced strapping tape, 2 pieces per section, overlapped by at least 50%.

Cleanup and Disposal: Used applicators and leftover material should be disposed of in the same manner as used oil or grease in accordance with local, state, and federal regulations.

Type of Delivery & Storage

- 35.5" x 500' roll (15.9 kg)
- 35.5" x 1,000' roll (31.9 kg)
- Jacketing should be handled and stored in a manner as not to damage the material and its packaging. For best results, rolls should be stored vertically; however, the rolls may be stored horizontally in their cartons provided the rolls are not exposed to damage by excessive weight of the stacked materials.
- Store away from sparks or flames.
- Consult Safety Data Sheet for additional storage and handling information.

Coverage

Standard application of adhesive to FOAMULAR® insulation:
The required amount of jacketing for a section of insulated pipe can be calculated[3] as follows:

Required Jacketing Area (A)

Equation 1, Imperial Units (23.6-inch-wide roll)
$$A = [1.08 \times [\pi \times (d + 2t) + 2] \div 12] \times l$$

Equation 2, SI, metric Units (1-meter-wide roll)
$$A = [1.05 \times [\pi \times (d + 2t) + 50] \div 1000] \times l$$

Where d = actual pipe diameter in inches or mm, t = insulation thickness in inches or mm, and l = pipe length in ft or m.

3 Figures DO NOT include losses.

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