

TFT-121

TFT-121 is an excellent vapor barrier & reflective insulation. It consists of 12u polyester film / 25u aluminum foil / 12u polyester film. Used as a facing over insulation board, segments, pipe sections, etc.

Primarily used in cold / cryogenic insulation systems, to prevent the ingress of moisture into the insulation.

TFT-121 combines the excellent vapor barrier properties of aluminum with the outstanding mechanical and thermal characteristics of polyester film, giving a ideal, flexible and efficient barrier material, suitable for outdoor use.

Facing Composition

Facing Composition	Description	Value (English)	Value (Metric)
Film	Polyester	0.05 mil	12 micron
Adhesive	Polyurethane	-----	-----
Foil	Aluminum	1.0 mil	25 micron
Adhesive	Polyurethane	-----	-----
Film	Polyester	0.05 mil	12 micron

Typical Physical Properties

Physical Properties	Test Method	Value (English)	Value (Metric)
Basis weight	Scale	21 lbs / 1000ft ²	102gsm
Permeance (WVTR)	ASTM E96, Procedure A	0.01 perm	0.6 ng/N.s
Tensile Strength - MD	ASTM D828	34 lbs/In	150 N/25mm
Tensile Strength - XD	ASTM D828	34 lbs/In	150 N/25mm
Burst Strength	ASTM D774	360 psi	250 N/cm ²
Low Temperature Resistance	ASTM D1790	Remains Flexible	Remains
	4 hrs @ -40 °F (- 40 °C)	No Delamination	No Delamination
High Temperature Resistance	ASTM D1790	Remains Flexible	Remains
	4 hrs @ +240 °F (+116 °C)	No Delamination	No Delamination
Dimensional Stability	ASTM D1204 @ 150F	Less than 0.5%	Less than 0.5%
Emissivity	ASTM E408	0.03	0.03