

K-FLEX CLAD® AL TAPE

Multi-Layer Laminate Protective Jacketing Tape



DESCRIPTION

K-FLEX CLAD® AL Tape is a multi-ply laminate jacketing (PVC backing and aluminum foil coated with a transparent protective polyester film) with a rubber-based adhesive that adheres firmly and forms a long-lasting bond.

AVAILABILITY

K-FLEX Clad® AL Tape is silver in color and is available in 2", 4" or 6" wide by 45' long rolls.

APPLICATIONS

K-FLEX CLAD® AL Tape is designed as a seam and joint tape for use with K-FLEX CLAD® AL jacketing, tubes and sheets. K-FLEX CLAD® AL is an ideal choice for outdoor applications as it is resistant to UV, weather, dirt, oxidation,

staining and a broad range of chemicals, salts and oils.

INSTALLATION

K-FLEX CLAD® AL Tape is durable (resistant to punctures, dents and tearing), safe to handle (non-dusting and free of sharp edges), and lightweight for an efficient installation. It requires little to no maintenance. The jacket can be cleaned with a cloth free of detergents and can be painted for aesthetic purposes using a paint suitable for painting furniture, such as rustoleum plastic spray paint. It should be applied over all seams and unfinished edges to prevent water intrusion. A 2" wide tape is recommended for seams, while a wider tape is recommended for edges and corners (see

chart below), folded to cover both sides. Once applied, a plastic squeegee should be used to eliminate wrinkles and air pockets. For applications subject to heavy moisture, K-FLEX recommends caulking seams. The *K-FLEX Installation Manual* should be used as a comprehensive installation guide.

FLAME AND SMOKE RATING

K-FLEX Clad® AL Tape has a flame spread rating of 25 or less and a smoke development rating of 450 or less as tested to ASTM E84.

Numerical flammability ratings alone may not define the performance of products under actual fire conditions. They are provided only for use in the selection of products to meet limits specified when compared to a known standard.

PHYSICAL PROPERTIES	K-FLEX CLAD® AL TAPE	TEST METHODS
Main Composition	Multi-ply laminate (PVC backing and aluminum foil coated with a transparent polyester film)	
Thickness	0.012"	
Weight	0.1 lb/ft ²	
Flame Spread / Smoke Development	<25/450	ASTM E84
Water Vapor Permeance at Taped Seam	<0.004 perms	ASTM E96
Water Resistance	Pass: No Unforced Delamination	ASTM C1775
UV Resistance	Excellent (Sunlight & Rain / Dew) UV Stability: >10 years Artificial Aging: >2000 hours (320 MJ/m ²) Solar Radiation: >3,600,000 kJ/m ²	ASTM G53 Internal Weatherometer Test EN 13859-1
Corrosion Risk	Protects against corrosion under insulation: 100% sealable, high emissivity, resistant to moisture vapor intrusion, puncture and tear	
Chemical Resistance	Resistant to Acids (Acetic, 50% Formic, 10% hydrochloric, 35%hydrofluoric, 10% nitric, 85% phosphoric), Aldehydes (acetaldehyde, formaldehyde), Alcohols (cyclohexanol, ethyl, glycerine, glycol, isopropyl, methyl), Esters (ethyl acetate), Hydrocarbons (aliphatic, benzene, petroleum, mineral oil, toluene, xylene), Acetone, Ether, Salt Solutions (bichromates, cyanides, fluorides). Partial resistance to Alkaline solutions, Chlorinate solvents, and select Alcohols and Acids. Additional Compatibility Data Available On Request.	
Fungi / Bacteria Resistance	Excellent	ASTM G21
Impact / Puncture Resistance	No Failure: 20mm diameter punch from 1 kg mass 100 N	UNI EN 12691 prEN 14 477
Emissivity	0.80	ASTM C1371
Tensile Strength	90 lbf/in	ASTM D828
Burst Strength	200 psi	ASTM D774
Dimensional Stability	-1% (length change)	ASTM D1204
Surface Temperature Exposure	Pass: No Cracks or Delamination (-20°F to +150°F)	ASTM C1263
Color	Silver	

RECOMMENDED TAPE WIDTHS (FOR DUCTWORK EDGES AND CORNERS)

Insulation Thickness	Tape Width
1/2"	4"
1"	6"
1-1/2"	6"
2"	6"