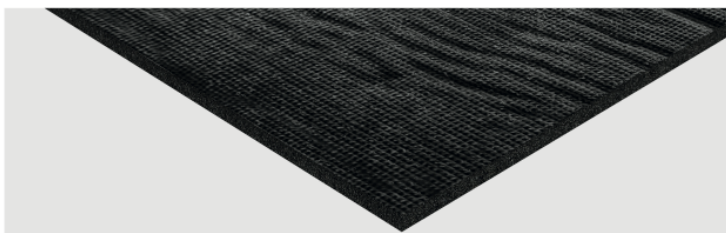


K-FLEX® TITAN™ SHEET

CLOSED-CELL, FLEXIBLE, ELASTOMERIC FOAM INSULATION WITH A FLEXIBLE CO-EXTRUDED UV RESISTANT JACKETING



DESCRIPTION

K-FLEX® TITAN™ SHEET is a flexible coextruded jacketed composite material applied to K-FLEX® NBR/ PVC sheet insulation. It is a polymeric jacketed material that offers excellent flexibility, abrasion and weather resistance, making it ideal for outdoor applications. An EPA registered antimicrobial agent is incorporated into the product providing additional protection against mold, fungal and bacterial growth.

PRODUCT RANGE

K-FLEX® TITAN™ is black in color sheets in rolls (also available in self-adhesive version) with typical thicknesses of ¼", ½", ¾", 1", 1-1/2" and 2".

APPLICATIONS

K-FLEX® TITAN™ SHEET can be used for outdoor applications with service temperatures ranging from -70 °F to +220 °F. The applications would be consistent with those recommended for K-FLEX® Insul-Sheet. The product is used to enhance the weather and protect from mechanical abuse resistance of the insulation sheet, providing excellent UV resistance. K-FLEX® TITAN™ SHEET is ideal for use in thermal insulation of refrigeration, air conditioning and heating & plumbing services in commercial, industrial and domestic applications. K-FLEX® NBR/PVC elastomeric insulation products can withstand temperature "spikes" up to 250°F (121°C). Because these spikes can vary in temperature and duration, long term effects may vary. Refer to technical bulletin TA36 for additional information. The product has a 5-year warranty.

INSTALLATION

1-Step Install: No field applied protective coating or additional jacketing required. K-FLEX® TITAN™ SHEET is durable (nonfracturing) and the skin is resistant to tearing from handling and the environment, safe to handle (nondusting and non-abrasive), and lightweight for an efficient installation. It is very flexible and easily conforms to bends. Its low modulus allows it to be pushed back for easy installation of fittings. K-FLEX® recommends that insulation is installed on non-operational systems with clean, dry surfaces in ambient conditions between 40 °F and 100 °F. All seams, butt joints, termination points and open ends should be sealed with an approved contact adhesive, making sure both surfaces to be joined are coated. On straight runs, seams should be facing down to reduce weight/pressure on the seam. For additional protection on the longitudinal seam, apply Titan Tape over entire length of the seam. A squeegee may be used to eliminate wrinkles and air pockets. ASTM C1710, Installation Guide for Flexible Closed Cell Foams, and the K-FLEX® Installation Manual should be used as comprehensive installation guides.

FLAME AND SMOKE RATING

K-FLEX® TITAN™ SHEET® in thicknesses of 2" (50 mm) and below has a flame spread rating of 25 or less and a smoke development rating of 50 or less as tested to ASTM E84, "Surface Burning Characteristics of Building Materials". It is acceptable for duct/plenum applications, meeting the requirements of NFPA 90A/B. 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.

RESISTANCE TO MOISTURE VAPOR

The expanded closed-cell structure and unique formulation inherently resists moisture vapor intrusion. K-FLEX® TITAN™ SHEET needs no additional protection.





ENVIRONMENTAL INFORMATION

Flexible and expanded elastomeric foam free of CFCs, HFCs, HCFCs, PBDEs, formaldehyde and fibers. It does not damage the ozone layer (ODP zero) and does not contribute to the greenhouse effect (GWP zero).

STORAGE CONDITIONS/SHELF LIFE

Store the material in a dry and clean environment at a temperature between 0 °C and 35 °C and a RH between 50% and 70%. Do not expose the material to heat or direct sunlight when stored. Self-adhesive products should not be kept in storage for more than one year.

INNOVATION FOR BETTER LIVING

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Distribuidora Térmica Acústica
del Centro, S. A de C. V.



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K-FLEX® TITAN™ ▸ TECHNICAL DATA		
▼ Physical properties ▼	▼ Titan ▼	▼ Test methods ▼
Main Composition	Flame-retarded NBR/PVC elastomeric foam with proprietary copolymer blend jacket	-
Thermal Conductivity (Btu-in/hr-Ft2-°F) 75°F (24°C) Mean Temp	0.230	ASTM C177
Density	3-6 lb/ft³	ASTM D1667
Operating Temperature Range	-70°F* (-57°C) to +220°F (+104°C)**	ASTM C534
Water Vapor Permeability (Dry Cup) (Core Material Only)	<0.01 perm-in	ASTM E96
Water Vapor Permeance (Jacket Material)	≤0.05 perms (Class I vapor retarder)	ASTM E96
Dimensional Stability	<7% Linear Shrinkage	ASTM C534
Corrosion Risk	pH neutral	DIN 1988
UV Resistance (Artificial Aging) (Jacket Material)	Pass: No Changes to Surface Condition Excellent – No Deterioration	ASTM G153 ASTM G154 tested to 5,000 hours
Flammability	25/50 (up to 1-1/2")	ASTM E84
Tensile Strength	1,200 psi min.	ASTM D412
Elongation	150% min.	ASTM D412
Hot surface Performance at 250°F (121°C)	pass	ASTM C411 NFPA 90 A
* For applications below -40°F (-40°C), contact K-FLEX® technical support. **Intermittent temperature "spikes" to 250°F (121°C)		

K-FLEX® TITAN™ SHEET ▶ “R” VALUES (ALL SIZES ARE NOMINAL)						
▼ 3/8" ▼	▼ 1/2" ▼	▼ 3/4" ▼	▼ 1" ▼	▼ 1-1/2" ▼	▼ 2" ▼	
1.5	2	3	4	6	8	

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