

K-FLEX TITAN

Closed-Cell Flexible Elastomeric Foam Insulation With A Flexible Co-Extruded UV Resistant Jacketing.



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DESCRIPTION

K-FLEX TITAN is a flexible coextruded jacketed composite material applied to K-FLEX NBR/PVC tubular insulation. It is a polymeric jacketed material that offers excellent flexibility, abrasion and weather resistance, making it ideal for outdoor applications. This product is made in K-FLEX MALAYSIA's ISO 9001 certified manufacturing facility in Klang, Selangor.

AVAILABILITY

K-FLEX TITAN is black in color and is available in 1/2", 3/4", 1" and 1-1/2" wall thicknesses, non-slit and preslit 6' length tubes. It is available in diameter sizes ranging from 1/4" I.D. to 2-1/8" I.D. across all wall thicknesses and additional IDs dependent on wall thickness.

APPLICATIONS

K-FLEX TITAN 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-Tube tubing. The product is used to enhance the weather and abuse resistance of the insulation tubing. K-FLEX TITAN is ideal for use on HVAC linesets and flex hose applications.

OUTDOOR APPLICATION

K-FLEX TITAN provides excellent UV resistance and protection from weather. K-FLEX TITAN's proprietary copolymer blend jacket provides excellent protection from mechanical abuse, including incidental impact from lawn equipment such as weed wackers (plastic string type). The product has a 5-year warranty.

INSTALLATION

1-Step Install: No field applied protective coating or additional jacketing required.

K-FLEX TITAN is durable (non-fracturing) 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.

Properly sized insulation tubing can be slid over piping (tubing should be pushed, not pulled). 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.

Vapor stops should be installed as needed. K-FLEX TITAN may be slit longitudinally for retrofit applications. ASTM C1710, Installation Guide for Flexible Closed Cell Foams, and the K-FLEX Installation Manual should be used as comprehensive installation guides.

RESISTANCE TO MOISTURE VAPOR

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

DIRECT BURIAL APPLICATIONS

K-FLEX TITAN can be installed in direct burial application if the lines are above the water table and not in a flood zone. K-FLEX TITAN should be installed in a single layer with all butt joint and longitudinal seams completely sealed with an approved contact adhesive (see technical bulletin TA 14). Install in a PVC conduct to prevent insulation compaction or increase insulation thickness by a minimum one wall size to compensate for compaction. Backfill materials shall not contain any angular/sharp edges and shall allow for drainage. For applications below the water table or in a flood zone, install K-FLEX TITAN in a sealed conduct or trench. See technical bulletin TA 10 for additional information.

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K-FLEX TITAN

"K-FLEX is the world's leading manufacturer of elastomeric insulation systems. In seventeen production facilities around the world, including Poland, France, China, India, Korea, Malaysia, Dubai, Egypt, the UK and the USA some 3,500 employees develop and manufacture outstanding product solutions for thermal and acoustic insulation.

K-FLEX is committed to ensuring its products comply with the fire safety and industry-wide safety standards.

K-FLEX has 63 sales offices on five continents, offering premium service to more than 50,000 customers.

As the world's fastest-growing company in the industry, K-FLEX is also a global player in the target markets of building services, refrigeration, air conditioning and ventilation, rail, shipping, automotive and beverage industries as well as the solar industry and OEM businesses.

K-FLEX has ISO 9001 and ISO 14001 certification."



ACCESSORIES





PIPE SUPPORT



K 414 GLUE



UV RESISTANT TAPE



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TECHNICAL DATA

PHYSICAL PROPERTIES		K-FLEX TITAN	TEST METHODS		
Main Composition		Flame-retarded NBR/PVC elastomeric foam with proprietary copolymer blend jacket	8		
Thermal Conductivity	20°C Mean Temp	0.034 W/(m.K)	ASTM C177		
Density		48 to 70 kg/m ³	ASTM D1667		
Operating Temperature Range		-57°C +104°C	ASTM C534		
Fire Performance		Surface Spread of Flames : Class 1 Fire Propogation: Total Index Performance (i) \leq 12 Sub-Index (i1) \leq 6 Fire Performance: Class 0	Surface Spread of Flame : tested according to BS 476 Part 7:1997 Fire Propogation: tested according to BS 476 Part 6:1969		
		25/50	ASTM E84		
		HF-1, V-0, 5VA	UL 94		
Water Vapor Permeability (Dry Cup)	(Core Material Only)	<0.01 perm-in	ASTM E96		
Water Vapor Permeance	(Jacket Material)	≤0.05 perms	ASTM E96		
Dimensional Stability		<7% Linear Shrinkage	ASTM C534		
UV Resistance (Artificial Aging)	(Jacket Material)	Pass: No Changes to Surface Condition	ASTM G153		

^{*}For applications below -40°C, contact K-FLEX technical support.

RANGE K-FLEX TITAN TUBES (2 METRES)

Copper	Pipe	Iron	Pipe	13 •	1/2"	19 •	3/4"	25	• 1"
OC Inches	ø OD mm	IPS Inches	ø OD mm	size		size	m/box	size	m/box
1/2"	12			13x13	64	19x13	36	25x13	30
5/8"	15	1/4"	13.5	13x16	56	19x16	36	25x16	20
3/4"	20			13x19	56	19x19	32	25x19	20
7/8"	22	1/2"	21.3	13x22	42	19x22	30	25x22	18
1•1/8"	28	3/4"	26.9	13x28	36	19x28	24	25x28	18
1•3/8"	35	1"	33.7	13x35	30	19x35	20	25x35	16
1.5/8"	42	1•1/2"	48.3	13x42	24	19x42	16	25x42	14
2•1/64"	51			13x51	20	19x51	12		
2.1/8"	54			13x54	18				
2.3/8"	60	2"	60.3	13x60	16	19x60	10		
2•41/64"	67			13x67	14	19x67	10		

PIPE "R" VALUES PER SQUARE FOOT (ALL SIZES ARE NOMINAL)			
NOMINAL INSULATION I.D.	1/2" WALL	3/4" WALL	1" WALL	1-1/2" WALL
	K-Flex	K-Flex	K-Flex	K-Flex
1/4"	4.0	6.1	9.6	16.5
3/8"	3.6	5.6	8.5	14.6
1/2"	3.4	5.4	7.9	13.5
5/8"	3.3	5.4	7.5	12.8
3/4"	3.1	5.4	7.5	12.4
7/8"	3.2	5.4	7.2	11.6
1-1/8"	3.1	5.5	7.1	10.8
1-3/8"	3.2	5.3	7.3	10.2
1-5/8"	3.1	5.1	7.1	9.8
1-1/2" IPS	2.6	4.4	6.2	8.9
2-1/8"	3.0	4.9	6.6	9.2
2" IPS	2.9	4.8	•	-
2-1/2" IPS	3.0	4.6	-	-
2-5/8"	3.1	-	*	-

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