

K-FLEX K-PROTECT

K-Flex Closed-Cell Cross Linked Polyethylene Foam Insulation With Aluminium Foil For Thermal & Acoustic Insulation Applications.

















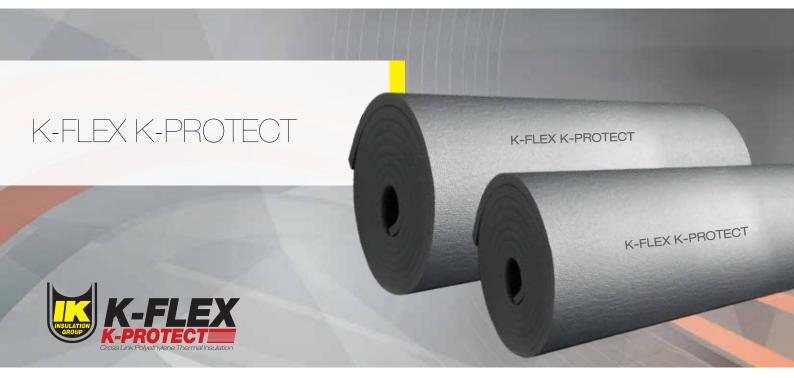












K-FLEX K-PROTECT

K-FLEX MALAYSIA is part of L'ISOLANTE K-FLEX spa, Italian multinational company specialized in manufacturing of elastomeric thermal & acoustic Insulation materials and a worldwide market leader presents the K-PROTECT CLOSED CELL CROSS-LINKED POLYETHYLENE FOAM INSULATION WITH ALUMINIUM FOIL.

K-PROTECT is designed taking into account the stringent norms of internationally accepted properties for the top-of-the-line Insulation materials. **K-FLEX K-PROTECT** is an answer for various application areas requiring Low Thermal Conductivity and fire class approved product with very flexible yet tough insulation material which offers ease of installation along with durable life span.

K-FLEX K-PROTECT is classified as Class 0 complying to BS 476 Part 6 & 7. Thus offering an excellent fire resistance and use in multiple applications areas where the fire safety is paramount.

K-FLEX K-PROTECT is manufactured at our World-Class manufacturing facility in Klang, near Selangor with machineries & setup capable of manufacturing the products adhering to strict international standard. **K-FLEX** engages the best quality raw materials, manufacturing practices and quality management system to ensure a superior quality end product.

TECHNICAL BENEFITS & ADVANTAGES

- K-PROTECT Insulation product has been tested and certified for its properties by third party international labs. The K-PROTECT product is designed for the world market taking into consideration the various requirements laid down by technical standards in various countries.
- > The completely closed cell structure by cross-linking polymers ensure a consistent insulation property in the body of Insulation. It offers the best resistance to water vapour ingress thus maintain the thermal conductivity of the Insulation
- > Comes with heat bonded factory laminated alufoil for long life. The **K-PROTECT** takes care of UV rays, mechanical damages as well as the acts as a barrier for water vapours.
- > **K-PROTECT** is technically superior Insulation due to low thermal conductivity 23°C @ 0.032 w/m.K and high resistance to water vapour with μ value > 20,000
- > Fire safety is of paramount importance when it comes to any building materials. The **K-PROTECT** is complying with BS 476 Part 6 & 7 norms and is classified as Class 0 product.
- > **K-PROTECT** has a main objective of help the energy efficiency & sustainability of the project. **K-PROTECT** is designed with Zero VOC, It is formaldehyde free, it offer excellent resistant to mould growth and has a ozone depletion potential of zero. **K-PROTECT** is CFC HCHC free product thus it is an environmental friendly Green product.
- > **K-PROTECT** is a fibre free and dust free material, and help maintain the clean air quality in the conditioned spaces as well, it doesn't cause any health hazards
- > Being designed with optimal effectiveness the **K-PROTECT** Insulation is cost effective. Being flexible and easy to apply, saves the installation costs and time involved in installation.
- > **K-PROTECT** is a flexible Insulation system. Being flexible it can be installed at ease on various surfaces. The flexibility reduces the installation time and simpler installation saves the cost of installation.
- > **K-PROTECT** with its closed cell structure has an excellent sound absorption properties.



K-PROTECT

"K-FLEX is the world's leading manufacturer of elastomeric Insulation systems. In twenty one production facilities around the world, including Poland, France, China, India, Malaysia, Dubai, Egypt, United Kingdom and United States some 6,200 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





APPLICATION AREAS

K-PROTECT can be used for air conditions ducting, piping Insulation, wall Insulation, acoustic Insulations, underdeck Insulations, tank Insulations and many other interior applications.

The K-PROTECT can be used in HVAC, Refrigeration, Pharmaceuticals, Solar Systems, Automotive, Hospitals, Industrial PEB's, Room & Machines Acoustics, Plumbing, OEM's, Automotives, Marine & Shipbuilding Industries etc.

TECHNICAL SPECIFICATIONS

K-FLEX ► K-PROTECT	Value/Assessment				
	Value/Assessment	Special Remark			
Density	30 kg/m³ ±10% (foam core only)				
Color	Grey (Foam only)				
Operating Temperature	-40 to 115 deg C				
hermal Conductivity	0.0322 W/m.k @ 23 deg C 0.0361 W/m.k @ 36 deg C	Tested acc to ASTM C 518			
Vater Vapour Diffusion Transmission Factor, μ	> 20,000	Tested acc to BS EN 12086			
loise Reduction Coefficient	0.30 for 25mm thickness	Tested acc to ASTM C 423			
Physical Properties					
ensile Strength	44 psi	Tested acc to ASTM D 412			
Jitimate Elongation	83%	Tested acc to ASTM D 412			
0% Modulus	40 psi	Tested acc to ASTM D 412			
00% Modulus	45 psi	Tested acc to ASTM D 412			
ear Strength	16 lbf/in				
Compression Deflection	10% Deflection - 6.8 psi 25% Deflection - 12.1 psi 50% Deflection - 91.7 psi	Tested acc to ASTM D 624 Tested acc to ASTM D 1621			
JV / Weathering & Ozone Resistance	Excellent				
ire Performance					
Burning Test	Flame Spread Index : < 25 Smoke Developed Index : < 50	Tested acc to ASTM E 84			
ire Rating	Class 0	Tested acc to BS 476 Part 6 & Part 7 BOMBA Malaysia			
M Approvals	Approved	Approval Class - 4924			
urning Test	HF-1	Tested acc to UL 94			
WTA 1530 Part 3	Ignitability 0 Spread of Flame Index 0 Heat Evolved Index 0 Smoke Developed Index 2				
Other Certificates					
Resistance to Fungal	Zero Growth	Tested acc to ASTM G 21			
Green Star Rating	Low VOC Emitting	Tested acc to ASTM D 5116			
Green Star Rating	Low VOC Emitting	Tested acc to ISO 16000			
Environmental Product Declaration (EPD)	Verified by UL	100.00 400 10 100 1000			

PACKING DATA

Thickness (mm)	Length (m)	Width (m)	Area/Roll (Sq. Mtr.)	Loading/Container (40HC)	Thickness (mm)	Length (m)	Width (m)	Area/Roll (Sq. Mtr.)	Loading/Container (40HC)
6	50	1.2	60	105	6	80	1.2	96	78
10	25	1.2	30	114	10	60	1.2	72	69
13	20	1.2	24	174	13	60	1.2	72	49
16	20	1.2	24	114	16	60	1.2	72	44
20	15	1.2	18	105	20	45	1.2	54	44
25	15	1.2	18	105	25	30	1.2	36	49
32	2.4	1.2	2.88	110	32	2.4	1.2	2.88	110
40	2.4	1.2	2.88	110	40	2.4	1.2	2.88	110
50	2.4	1.2	2.88	110	50	2.4	1.2	2.88	110

K-FLEX

K-FLEX reserves the right to change data and technical requirements without notice. Please refer to sales personnel for further loading quantity.

