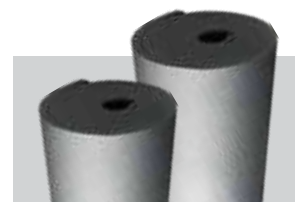


K-FLEX K-PROTECT



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



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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 CROSS-LINKED CLOSED CELL POLYOLEFIN 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 @ 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 fourteen production facilities around the world, including Poland, France, China, India, Korea, Malaysia, Dubai, Egypt, the UK and the USA some 2,500 employees develop and manufacture outstanding product solutions for thermal and acoustic insulation.

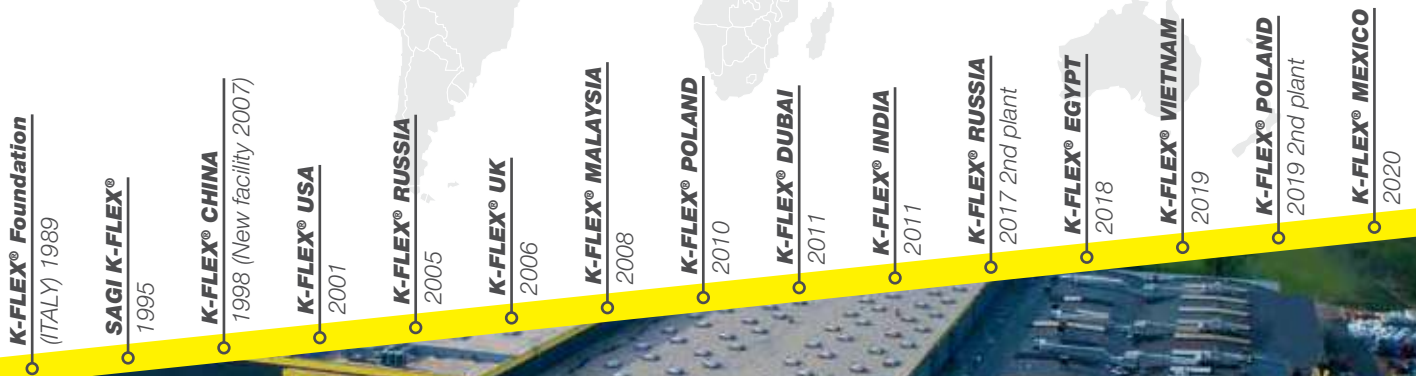
K-FLEX is committed to ensuring its products comply with the fire safety and industry-wide safety standards.

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."

PLANT TIMELINE



ACCESSORIES

PE FOAM TAPE



PIPE SUPPORT



K-414 Adhesive



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		
Property	Value/Assessment	Special Remark
Density	30 kg/m ³ ±10% (foam core only)	
Color	Grey (Foam only)	
Operating Temperature	-40 to 115 deg C	
Thermal Conductivity	0.0322 W/m.k @ 23 deg C 0.0361 W/m.k @ 36 deg C	Tested acc to ASTM C 518
Water Vapour Diffusion Transmission Factor, μ	> 20,000	Tested acc to BS EN 12086
Noise Reduction Coefficient	0.30 for 25mm thickness	Tested acc to ASTM C 423
Physical Properties		
Tensile Strength	44 psi	Tested acc to ASTM D 412
Ultimate Elongation	83%	Tested acc to ASTM D 412
50% Modulus	40 psi	Tested acc to ASTM D 412
100% Modulus	45 psi	Tested acc to ASTM D 412
Tear Strength	16 lbf/in	Tested acc to ASTM D 624
Compression Deflection	10% Deflection - 6.8 psi 25% Deflection - 12.1 psi 50% Deflection - 91.7 psi	Tested acc to ASTM D 1621
UV / Weathering & Ozone Resistance	Excellent	
Fire Performance		
Burning Test	Flame Spread Index : < 25 Smoke Developed Index : < 50	Tested acc to ASTM E 84
Fire Rating	Class 0	Tested acc to BS 476 Part 6 & Part 7 BOMBA Malaysia
FM Approvals	Approved	Approval Class - 4924
Burning Test	HF-1	Tested acc to UL 94
AWTA 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

PACKING DATA

Thickness (mm)	Length (m)	Width (m)	Area/Roll Sq. Mtr.
6	50 / 80	1.2	60 / 96
10	25 / 60	1.2	30 / 72
13	20 / 60	1.2	24 / 72
16	20 / 60	1.2	24 / 72
20	15 / 45	1.2	18 / 54
25	15 / 30	1.2	18 / 36
40	2.4	1.2	2.88
50	2.4	1.2	2.88

K-FLEX reserves the right to change data and technical requirements without notice.

