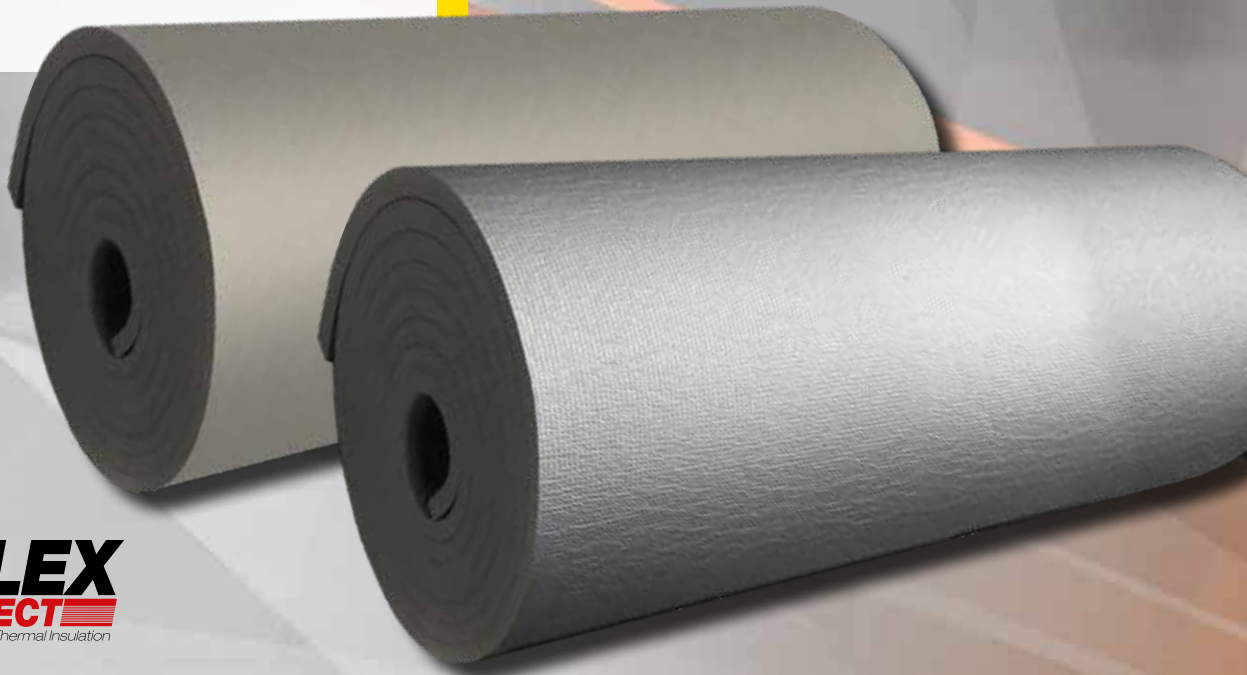


K-FLEX K-PROTECT



K-FLEX ▶ K-PROTECT

K-FLEX INDIA 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** a Cross Linked Closed Cell Polyolefin Foam Insulation. **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 still tough Insulation material which offers ease of installation along with durable life span.

K-FLEX K-PROTECT is classified as Class "O" 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 Ranjangaon, near Pune with machineries & setup capable of manufacturing the products adhering to strict international norms. **K-FLEX** engages the best quality Raw Materials, Manufacturing Practices and Quality Management system to ensure a Superior quality end product.

K-FLEX K-PROTECT ▶ TECHNICAL BENEFITS & ADVANTAGES

- > 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** with Alufoil takes care of UV rays, Mechanical damages as well as the acts as a barrier for water vapours.
- > **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** is Technically superior insulation due to low thermal conductivity @ 0.032 w/m.K and high resistance to water vapour with μ value > 10000
- > **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** 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.
- > 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 "O" product.
- > **K-PROTECT** with its closed cell structure has an excellent sound absorption properties.
- > 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.
- > The **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

K-FLEX K-PROTECT ▶ 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 to name a few.

K-FLEX K-PROTECT ▶ PACKING DATA

K-FLEX ▶ **K-PROTECT**

Sr.No.	Thickness (mm)	Length (m)	Width (m)	Area/Roll Sq. Mtr.
1	6	60	1.2	72
2	8	50	1.2	60
3	9	40	1.2	48
4	10	40	1.2	48
5	12	25	1.2	30
6	15	25	1.2	30
7	18	20	1.2	24
8	20	20	1.2	24
9	25	15	1.2	18

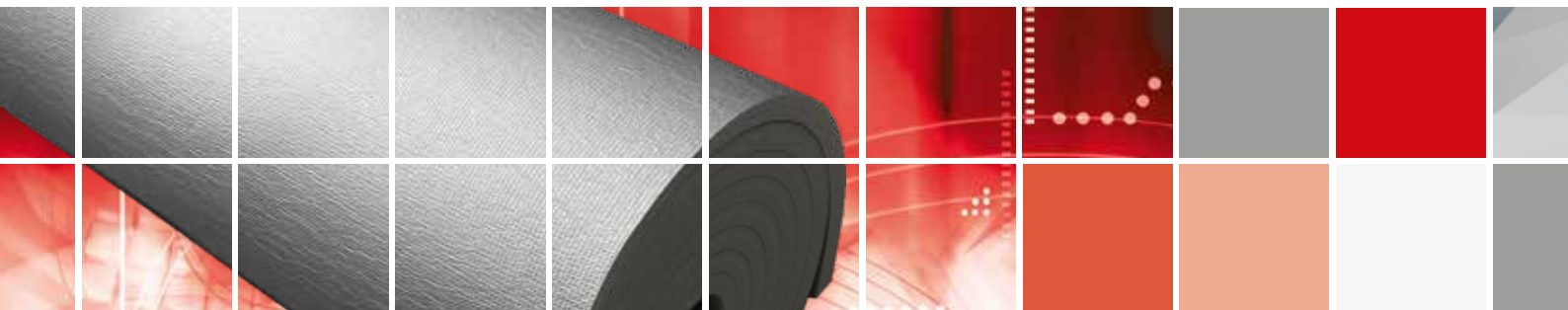


* Special length or thicknesses available on request

K-FLEX K-PROTECT ▶ TECHNICAL SPECIFICATIONS

Density	30 Kg/m ³ ±10%
Color	Beige / Grey
Thickness	3,6,9,13,16,18,25,30,40,50 mm
Thermal Conductivity ASTM C518 - DIN 52615	0.0322 W/m.k @ 23deg C 0.0361 W/m.k @ 36deg C
Tear Resistance ASTM D571	0.8 N/mm (DIN53507) MD, 0.38 Mpa for Insulation with Alufoil 0.8 N/mm (DIN53507) CD, 0.27 Mpa for Insulation with Alufoil
Color Tensile Testing ASTM D571	0.25 Mpa MD (ISO 1798) 0.19 Mpa CD (ISO 1798)
Elongation At Break (ISO 1798)	160 % MD and 60 % for Insulation with Alufoil 200% CD and 60 % for Insulation with Alufoil
Compression Stress strain At Deflection ISO 3386	@ 10% - 13 Kpa @ 25% - 31 Kpa @ 50% - 87 Kpa
Compression Set 22h, 25%, 22 Deg C ISO 1856	@ 0.5 Hr - < 17 @ 24 Hr - < 9
Thermal Stability	No visible change observed at Rh 60%, Temp 35 Deg, for 24 hrs BS 4730 part 1
UV & Weathering	Excellent
Salt Resistance Internal Test 2 week immersion in 5% salt Solution	No Visible Change observed
Water Vapour Permeability ISO E96	2.298 x 10 ⁻¹⁵ kg/Pa.s.m as per ISO E96
Water Vapour Permeance ASTM E 96	0.000195 µg/N.s for 12mm
Permeability Resistance Factor	> 12000 for foam with alufoil
Water Absorption by Volume JIS K6767 - EN 13472	<0.1% v/v (0.00038 g/cm ³)
Resistance to Fungi ASTM G21	Zero Growth
Ozone Resistance	Excellent
UV resistant	Excellent
Operating Temperature	- 40 to 115 Deg C
Fire & Smoke Behaviour BS 476 part 6 & 7 ASTM E84	Class "0" 25/50-rated (up to 1")
Horizontal Burning Test UL 94 HBF	Approved (HF-1) (E193277)
Noise Reduction Coefficient AS 1045	0.20 for 12mm foam thickness 0.3 for 25mm foam thickness
Green Star Rating ASTM D5116	Low VOC Emitting
Chemical resistance ASTM C 543	No effect
Volume % of Closed Cell BS 4370 Part 2	>90%
Sound Transmission Class for 9mm foam with 12mm substrate sheet ISO 140 / ASTM E 413	40 dB

K-FLEX K-PROTECT



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