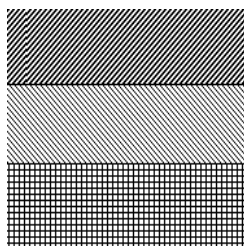


## K-FLEX AL CLAD SYSTEM

### K-FLEX ST AL CLAD SYSTEM - Technical Data Sheet

#### Description



PET, UV resistant 9-13 micron + Al 9-13 micron + PVC 225-250 micron

Highly flexible closed cell elastomeric foam K-Flex ST coupled with the multilayered cladding AL Clad, UV and weather resistant.

#### Applications

Thermal insulation for pipes and ducts, applied for air conditioning, heating and plumbing, fittings, accessories.

#### Brand names

"K-FLEX ST AL CLAD" for tubes, sheets and tapes, adhesive or standard.

#### Reaction to fire

System AL Clad/Sheet Reaction to Fire	D, s <sub>3</sub> , d <sub>0</sub>
System AL Clad/Tubes Reaction to Fire	C <sub>L</sub> , s <sub>3</sub> , d <sub>0</sub>

#### Technical Properties

## K-FLEX AL CLAD SYSTEM

**Facing Technical Properties:**

Property	Value	Unite measure	Standard
Mechanical Properties: ultimate strength ultimate elongation tear strength Puncture ø 3 mm	> 200 > 40 > 80 > 23	N/15 mm % N N	EN ISO 527- 3 EN ISO 527- 3 EN ISO 527- 3 prEN 14 477
LOI (Limited Oxygen Index)	> 35.5	%	
UV stability	> 2000	hours	ISO 4982 - 2
Temperature Resistance	-25 -- 75	°C	-
Total Weight approx.	400	g/m <sup>2</sup>	-
Reaction to Fire	C, s <sub>2</sub> , d <sub>0</sub>		

**K-Flex ST Elastomeric Foam Technical Properties:**

Property	Value	Notes
Maximum service temperature Tubes (EN14707): Sheets (EN14706):	+110°C +85°C	
Minimum service temperature	-40°C	
Water vapour diffusion resistance (EN 12086) Tubes/Sheets thickness ≤ 25mm Tubes/Sheets thickness >25mm, tapes, Duct	μ ≥ 10 000 μ ≥ 7 000	
Water absorption (EN 13472)	<0.1 %	
Leachable chlorides (EN 13468)	<500 ppm	When tested in line with DIN1988/7, leachable chlorides <0.05%
Ph (EN 13468)	Neutral (7)	
Reaction to fire (EN13501)	B - s3, d0 BL - s3, d0	(sheets, self adhesive sheets 3 to 50mm, 3mm tapes) (tubes, up to 75mm)
Dimensional tolerances	as per EN14304	

	Medium temperature [°C]	-30	-20	-10	0	10	20	30	40	50	70
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## K-FLEX AL CLAD SYSTEM

Tubes thickness ≤ 25mm (EN ISO 8497)	Thermal conductivity [W/(m °K)]	0.030	0.031	0.032	0.033	0.034	0.035	0.036	0.037	0.0385	0.042
Tubes thickness > 25mm (EN ISO 8497)	Thermal conductivity [W/(m °K)]	0.033	0.034	0.035	0.036	0.037	0.038	0.039	0.040	0.041	0.043
Sheets thickness ≤ 25mm (EN 12667)	Thermal conductivity [W/(m °K)]	0.030	0.031	0.032	0.033	0.034	0.035	0.036	0.037	0.0385	0.042
Sheets thickness > 25mm (EN 12667)	Thermal conductivity [W/(m °K)]	0.033	0.034	0.035	0.036	0.037	0.038	0.039	0.040	0.041	0.043

### Storage

To be stored at a temperature not below -10°C.