



K-FLEX ST PLUS

K-FLEX ST PLUS - Technical Data Sheet

Description

Highly flexible closed cell elastomeric foam (FEF) suitable for hot and cold thermal insulation, featuring a combination of low thermal conductivity, high water vapour diffusion resistance and low flame spread.

Applications

Thermal insulation for pipes, ducts, tanks, applied for refrigeration, air conditioning, heating and plumbing, pipe fittings and water ducts, industrial applications for energy saving and/or condensation prevention purposes.

Brand names

"K-FLEX ST Plus" sold as tubes, sheets, tape and self adhesive sheets

"K-FLEX ST Plus/SK" sold in precut self adhesive pipes

Physical properties

Property	Value	Notes
Maximum service temperature Tubes (EN14707): Sheets (EN14706): Self adhesive pipes:	+110°C +85°C +85°C	
Minimum service temperature	-40°C	For industrial applications, product can be applied down to -198°C; for applications below -40°C please contact our technical department
Water vapour diffusion resistance (EN 12086) Tubes/Sheets thickness ≤ 25mm Tubes/Sheets thickness >25mm, tapes, Duct	$\mu \geq 10\ 000$ $\mu \geq 7\ 000$	
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)	

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Reaction to fire (EN13501)	B - s3, d0 BL - s2, d0 BL - s3, d0	(sheets, self adhesive sheets 3 to 50mm, 3mm tapes) (tubes, up to 50mm) (tubes >50mm, Coils)
Dimensional tolerances	as per EN14304	

	Medium temperature [°C]	-30	-20	-10	0	10	20	30	40	50	70
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.