



K-FLEX ST

K-FLEX ST - 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” sold as tubes, sheets, tape

“K-FLEX ST AD” or “K-FLEX STA” or “K-FLEX ST Self Adhesive” sold in self-adhesive sheets two skins

“K-FLEX ST/SK, STA, STF” sold in precut self adhesive pipes (ST/SK) with FEF tape overlap (STA), PVC overlap (STF)

“K-FLEX ST Frigo” sold in coils *

“K-FLEX ST Duct” sold in self-adhesive sheets one skin for ductlining **

Physical properties:

Property	Value	Notes
Maximum service temperature Tubes (EN14707): Sheets (EN14706): Self adhesive pipes:	+110°C +85°C +85°C	
Minimum service temperature	-165°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	$\mu \geq 10\,000$ $\mu \geq 7\,000$	

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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 B - s2, 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	
Ecological data	Without CFCs and HCFCs	
Approvals *(not valid for K-FLEX ST FRIGO) **(not valid for K-FLEX ST DUCT)	Environmental Product Declarations EPD ** R1-HL2* ** ECO-BAU and MINERGIE-ECO* ** CE-MARINE (Bureau Veritas)* ** ABS (American Bureau of Shipping)* ** DNV* ** Lloyd's Register* ** UL94** FM Approval* **	UNI ISO 14025 & EN 15804:2012+A2:2019 EN 45545-2: 2013

	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.