



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) | |

K-FLEX ST PLUS

| | | |
|----------------------------|--|--|
| 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.