Product data sheet SAERTEX-LINER[®] INDUSTRY, TYPE S+, FASTPLUS



As of: February 2023

Product group	GRP LINER - Gravity
Product range	SAERTEX-LINER [®] INDUSTRY
Design	Type S+
Application	Corrosive sewage with compatibility check
Reinforcing material	Multiaxial fabric made of ECR glass
Resin type	Vinyl ester resin (VE)
Wet out (Saturation)	Fully wet out at the factory
Curing procedure	UV light – cured in place pipe (UV-CIPP)
Installation procedure	Pull in place
Inflation procedure	Compressed air
Shelf-life storage parameters	Up to 6 months at temperatures from 45°F - 77°F
EC Safety Data Sheet	Available upon request

DESIGN CHARACTERISTICS	
Host pipe profile	All types
Diameter range	6" – 40"
Structural wall thickness	3 mm-10 mm, in 1 mm increments; system limits: 40" max
Permissible elongation	≤16": DN + 2% >16": DN + 4%
Outer foils	Integrated sliding and light protection foil and permanent foil with barrier function
Liner construction as outlined in:	DIBt approval Z-42.3-350, Annex 1 and 2, abZ/AB

COMPOSITE REINFORCEMENT	
Glass fiber type according to DIN 61850	Permanently corrosion and chemical resistant, ECR
Number of layers multiaxial fabric	≥2
Glass area weight per mm wall thickness	1100 g/m² ± 150 g/m²
Specific density according to DIN EN ISO 1183-2	1.6 g/cm ³ ± 0.5 g/cm ³
Glass content according to DIN EN ISO 1172	≥ 46% (mass-based)
Barcol hardness according to DIN EN 59	≥ 40 IRHD
Longitudinal seam	Yes

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FOILS	
Inner foils with barrier function	FastPlus
- Foil Type	Semi-permanent*
- Materials	PE/PA nonwoven PET
- Thickness	Up to 400 μm
Protective outer gliding foil, UV light protection** integrated	
- Material	PVC reinforced fabric
- Thickness	Up to 500 μm
Permanent outer foil with barrier function	
- Material	PE/PA/PE and nonwoven PP
- Thickness	Up to 200 μm

*(terms ISO 11296-4): Semi-permanent: Facilitates liner installation and curing without post-installation functions. Remains in the liner. **Up to 24" and max. 5.500lbs liner weight and corresponding condition of host pipe, liner may be installed without additional gliding foil.

MECHANICAL CHARACTERISTICS

2,970,000psi
2,430,000 psi
39,000 psi
1.28/78%
1.31/76%
≤ 6 %