Product data sheet SAERTEX-LINER[®] MULTI, TYPE S+, PRESSURE



As of: February 1, 2023

Product group	GRP LINER – Pressure
Product range	SAERTEX-LINER® MULTI
Design	Type S+
Application	Municipal wastewater, storm water, sewage
Reinforcing material	Multiaxial fabric made of ECR glass
Resin type	Unsaturated polyester resin (UP)
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 12 months at temperatures from 45 °F – 77 °F
EC Safety Data Sheet	Available upon request

**DIA- Diameter

Up to 14 psi		
Circular		
10" –48"		
4 mm-12 mm, in 1 mm increments		
Available on request		
Integrated gliding and light protection		
foil and permanent foil with barrier		
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	Pressure	
- Foil Type	Permanent*	
- Materials	PE/PA nonwoven PET	
- Thickness	Up to 400 μm	
Protective outer gliding foil, UV light prote	ection** 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) Permanent: Facilitates liner installation and curing with post-installation functions. Remains in the liner.

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MECHANICAL CHARACTERISTICS	
Short-term circumferential E modulus according to DIN EN 1228	2,970,000psi
Short-term bending E modulus according to DIN EN ISO 11296-4 // DIN EN ISO 178 // ASTM D790	2,450,000 psi
Short-term bending stress according to DIN EN ISO 11296-4 // DIN EN ISO 178 // ASTM D790	39,000 psi
Retention factor A after 10,000 hours according to DIN EN 761	1.28/78%
Retention factor A after 20,000 hours according to DIN EN 761	1.31/76%
Creep tendency after 24 hours according to DIN EN ISO 899-2	≤6%