

Berolina-LP-Liner



Area of application

Pressure pipes up to 3 bar operating pressure

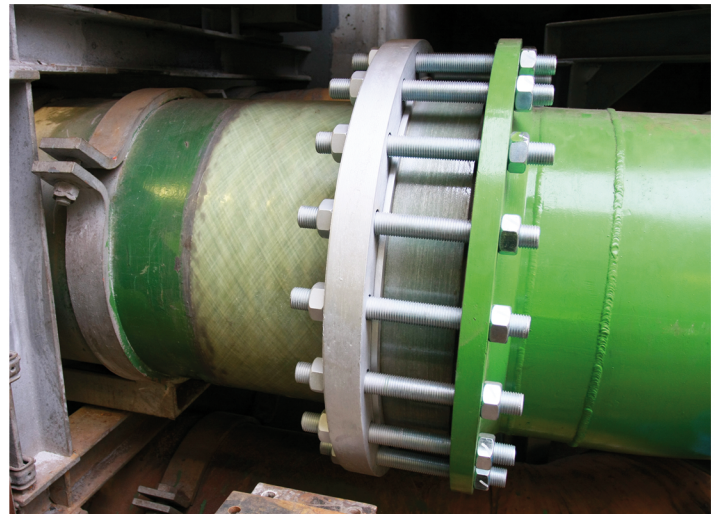
- Circular profiles: ID 150 (6") - ID 600 (24")

Advantages

- Use in low-pressure range
- Seamless design
- Ready for installations up to 500 metres
- Can be stored for at least 5 months
- Fast curing
- Smooth surface
- Suitable for all standard pipe profiles
- Bridging small profile and cross-section changes



BKP Berolina – We Protect Pipes



Reinforcement material

Woven glass complex E-CR according to

- EN 14020-1
- EN 14020-2
- EN 14020-3

Resins

Unsaturated polyester resins (UP resins)

- Type 1140 according to DIN 16946-2
- Group 3 according to DIN 18820-1
- Group 4 according to EN 13121-1

Technical data

Short-term circumferential modulus of elasticity (EN 1228)*: $\geq 10,000 \text{ N/mm}^2$

Short-term modulus of elasticity in flexure (EN ISO 178)*: $\geq 8,700 \text{ N/mm}^2$

Short-term flexural strength (EN ISO 178)*: $\geq 150 \text{ N/mm}^2$

Reduction factor for long-term values (EN 761): $A = 1.45$

Long-term circumferential modulus of elasticity (EN 1228)*: $\geq 6,800 \text{ N/mm}^2$

Long-term flexural strength (EN ISO 178)*: $\geq 105 \text{ N/mm}^2$

Laminate design:

Multi-layer, seamless and overlapping in longitudinal direction; overlaps are offset

Linear expansion during calibration:

$\sim 0.0\%$

Allowable diameter tolerance of the host pipes:

$\text{DN} \leq 600: \pm 5\%$

* Carrier laminate thickness to EN ISO 11296-4 (07/2011)