Trelleborg UltraFlex 1D PP

QUICK OVERVIEW

Bendability

★★★★★

Temperature resistance in °C

50° 80° 100°

Diameter changes*

- +25 %

Final wall thickness ≥**

- 3.5 – 5.0 mm

RANGES OF APPLICATION

- Underground-/ Down pipes with diameter change
- DN 50 to DN 200 [NPS 2” to 8”]

TECHNICAL SPECS

Installation pressure P_{Inst}

- 0.3 – 0.7 bar / 4.35 – 10.15 psi

Curing pressure P_{Cure}

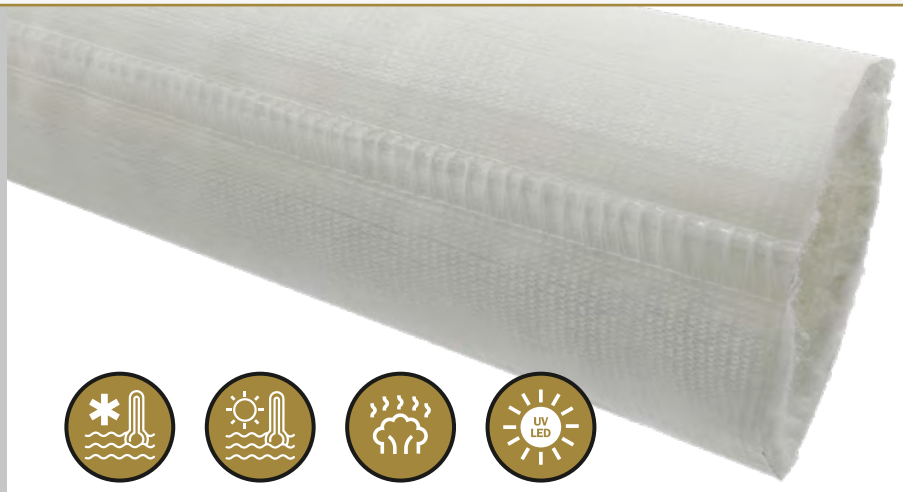
- 0.3 – 0.7 bar / 4.35 – 10.15 psi

Maximum pressure P_{max}

- 0.8 bar / 11.6 psi
  Depending on diameter.
  Please refer to the technical data sheet.

Gap between calibration rollers

- 8.8 mm
  (4.0 mm final wall thickness)



EASY TO INVERT, PERFECT FOR BENDS

The Trelleborg UltraFlex 1D PP is the perfect product for rehabilitating sections with up to one change in dimension and multiple bends up to 90°. It is available for rehabilitating pipes with diameters from DN 50 to DN 200 (additional sizes on request).

Its PES nonwoven carrier material allows it to be installed with minimal pressure and to achieve excellent lining of bends. The special substrate material also makes it possible to overfill the liner with resin, thus achieving excellent final wall thicknesses in the expanded areas if required.

The UltraFlex 1D PP is compatible with all known curing methods. Its chemical-resistant PP coating allows the use of styrene-containing resins, for example, as well as pre-impregnation and storage of the product in the case of UV resins. The possible storage period and storage temperatures are essentially determined by the resin used. When curing with steam, the 100 °C temperature limit must be observed. No calibration tube is required to protect the product from damage up to this temperature. Due to its elasticity, areas outside the pipe should be protected from unwanted expansion with a preliner or calibration tube.

Please also note the technical data sheets and the information and notes in the processing manual.

PRODUCT INFORMATION

- Seam type: Sewn and taped (PP)
- Coating: Polypropylen (PP) 300 µm
- Final wall thickness ≥**: 3.5 – 5.0 mm
- Temperature resistance: up to 100 °C (212 °F)

NOMINAL DIAMETER AVAILABILITY

- DN 50 to DN 200 [NPS 2” to 8”]

HOSE LENGTHS

- Standard lengths 100 m
  [approx. 328 ft – actual lengths may vary]

SUITABLE RESIN SYSTEMS

- Trelleborg Epoxy FC15 / 30 (Comp. A + B)
- Trelleborg Epoxy HC120+ (Comp. A + B)
- Trelleborg Epoxy BC15 / 30 / 60 (Comp. A + B)
- Trelleborg EasyPox (Comp. A + B)
- Trelleborg RayCure (one component resin)

CURING METHODS

- Ambient
- Hot
- Steam
- UV-Hg / LED

EPOXY RESIN CONSUMPTION (4.0 MM FINAL WALL THICKNESS)

- DN 50: approx. 0.61 kg/m
- DN 75: approx. 0.95 kg/m
- DN 100: approx. 1.28 kg/m
- DN 125: approx. 1.61 kg/m
- DN 150: approx. 1.95 kg/m
- DN 200: approx. 2.62 kg/m

RAYCURE UV-RESIN CONSUMPTION

- DN 50: approx. 0.59 kg/m
- DN 75: approx. 0.91 kg/m
- DN 100: approx. 1.23 kg/m
- DN 125: approx. 1.55 kg/m
- DN 150: approx. 1.87 kg/m
- DN 200: approx. 2.51 kg/m

5 % loss in length for every 25 % change in dimension.

The values given above are affected by the resin used, the pipe size, and the temperature of the resin and the environment.

IN ACCORDANCE WITH GLOBAL STANDARDS

DIN EN

Deutsches Institut für Bautechnik DIBt

ASTM INTERNATIONAL Standards Worldwide

CERTIFIED QUALITY

Quality Management System DIN EN ISO 9001 certified

Quality Management System DIN EN ISO 14001 certified

* Please note that the expansion of the hose liner when changing dimensions will always affect the final wall thickness. The thinning of the liner can be counteracted by using larger quantities of resin.

** Provided that the relevant installation regulations are complied with (see manual)

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WWW.TRELLEBORG.COM/PIPE-REPAIR