Trelleborg Thermoliner

QUICK OVERVIEW

Bendability

★★★☆☆

Temperature resistance in °C

50° 80° 100°

Diameter changes*

- +25 %

Final wall thickness ≥**

- 4.0 mm

RANGES OF APPLICATION

- Underground pipes
- DN 70 to DN 300 [NPS 2.75” to 12”]

TECHNICAL SPECS

Installation pressure P_{Inst}

- 0.3 – 1.1 bar / 4.35 – 15.4 psi

Curing pressure P_{Cure}

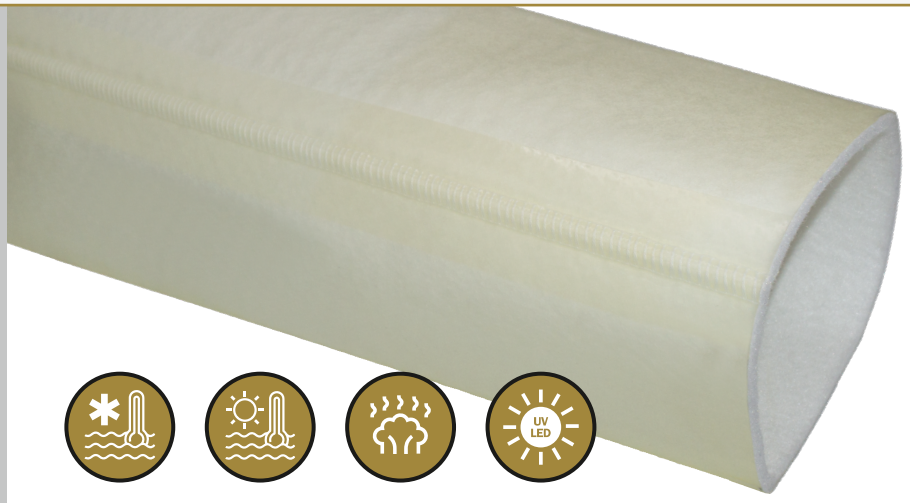
- 0.3 – 0.5 bar / 4.35 – 7.0 psi

Maximum pressure P_{max}

- 1.2 bar / 16.8 psi for DN 100 Please refer to the technical data sheet for other diameter.

Gap between calibration rollers

- 9.2 mm (4.0 mm final wall thickness)



EASY TO INVERT, GOOD LENGTH CONTROL

The Trelleborg Thermoliner is the product for rehabilitating straight sections with a maximum of one dimensional change and bends of up to 45°. It is available for the rehabilitation of pipes with diameters from DN 70 to DN 300 (NPS 2.75“ to 12“). Its backing material made of PES felt has good longitudinal tensile strength, which favours precise installation when installing with an open end.

The carrier material, which is specially manufactured for the application, also ensures that radial expansion is possible at moderate pressure without any significant loss of length. The Thermoliner can be used with all known curing methods. When curing with steam, the temperature limit of 80° must be observed. At higher steam temperatures, it is essential to work with a suitable calibration tube to protect the hose from damage.

Please also refer to the technical data sheets and the information and notes in the process manual.

PRODUCT INFORMATION

- Seam type: Sewn and taped (TPU)
- Coating: Polyurethan (PU) 250 µm
- Final wall thickness ≥**: 4.0 mm
- Temperature resistance: up to 80 °C (176 °F) , up to 100 °C (212 °F) if cal tube is used

NOMINAL DIAMETER AVAILABILITY

- DN 70 to DN 300 [NPS 2.75” to 12”]

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 70: approx. 0.97 kg/m
- DN 100: approx. 1.32 kg/m
- DN 150: approx. 2.00 kg/m
- DN 200: approx. 2.69 kg/m
- DN 250: approx. 3.38 kg/m
- DN 300: approx. 4.07 kg/m

RAYCURE UV-RESIN CONSUMPTION

- DN 70: approx. 0.93 kg/m
- DN 100: approx. 1.26 kg/m
- DN 150: approx. 1.92 kg/m
- DN 200: approx. 2.57 kg/m
- DN 250: approx. 3.24 kg/m
- DN 300: approx. 3.89 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)

TRELLEBORG

WWW.TRELLEBORG.COM/PIPE-REPAIR