

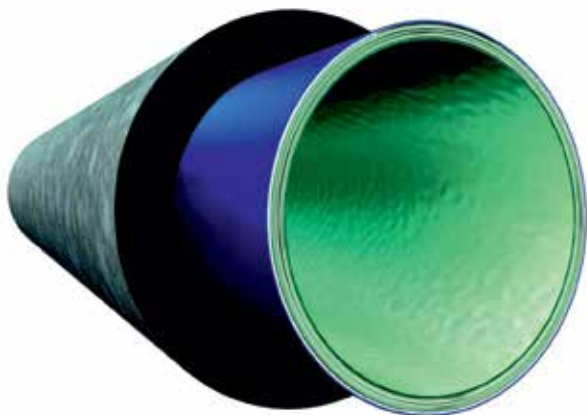


Composites

## **SOLUTIONS FOR TRENCHLESS PIPE RELINING**

The renovation of water and sewage networks is a major challenge for societies across the world. The trenchless relining of piping networks using glass fiber-reinforced plastic tubing (GRP) has many advantages: less nuisances caused by excavation and fast and precise intervention in networks. It offers a proven solution that meets safety and environmental requirements.

# CHOMARAT



With pipe diameters increasing, composites are becoming even more important due to their excellent mechanical performances.

- The glass fiber reinforcements developed by **CHOMARAT** are more specifically intended for trenchless relining with partial or continuous jacketing (tubing).
- Our reinforcements are delivered dry, and are then impregnated by our customers with photo-curable resin. The pipe is shaped after in situ curing of the sheath produced in their production workshop.

### CHOMARAT'S SOLUTIONS:

- **CHOMARAT**'s reinforcements optimize the numerous advantages of glass (high modulus of elasticity, tensile strength, corrosion-resistant, rigidity and creep strength).
- ECR glass-based textile constructions can satisfy pre-defined mechanical requirements and deliver controlled elasticity, enabling them to perfectly adapt to the shape of pipes, even those worn by time. These reinforcements are also designed for optimal factory impregnation and UV curing.



## ROVIMAT™

### DESCRIPTION:

**ROVIMAT™** is a fabric-mat complex, made from flat fabric and mat, mechanically bonded by stitching, with no chemical binder.

### RANGE:

<b>SINGLE OR DOUBLE SIDED MAT</b>	From 200 to 900 g/m <sup>2</sup>
<b>SINGLE OR DOUBLE FABRIC</b>	From 200 to 1800 g/m <sup>2</sup>
<b>WIDTH</b>	From 10 to 300 cm
<b>OPTIONAL</b>	
<b>NON-WOVEN POLYESTER*</b>	60 g/m <sup>2</sup>

\* Potential to laminate a non-woven polyester of 60 g/m<sup>2</sup> on one side to improve surface appearance.



## G-PLY™

### DESCRIPTION:

**G-PLY™** is a NCF («Non-Crimp Fabric») made of unidirectional plies mechanically bonded by stitching.

### RANGE:

TOTAL WEIGHT	From 100 to 600 g/m <sup>2</sup>
WIDTH	From 10 to 127 cm
OPTIONAL	
MAT	Between 200 to 900 g/m <sup>2</sup>
NON-WOVEN POLYESTER*	60 g/m <sup>2</sup>

\* Potential to laminate a non-woven polyester of 60 g/m<sup>2</sup> on one side to improve surface appearance.

## TAPES

### DESCRIPTION:

These fabrics are used for sheath traction during installation.

### RANGE:

FABRICS	From 200 to 1500 g/m <sup>2</sup>
WIDTH	From 10 to 100 cm



## OFLEX™ pipe

### DESCRIPTION:

The **OFLEX™** range includes flexible coated fabrics and technical films made using our coating, extrusion and laminating technologies.

These technologies allow us to process all types of thermoplastics and to laminate a wide variety of materials.

**OFLEX™** pipes involve the extrusion or laminating of thermoplastic films resistant to thermoset resin solvents on different materials: felt, fabrics or any other glass fiber-based complex.

### RANGE:

MATERIALS	Woven fabric, mesh, non-woven, grid, foam and paper	From 50 to 1000 g/m <sup>2</sup>
FILM	TPU, PVC, PU, TPO, TPE, TPU, PA, PET	From 40 to 1000 g/m <sup>2</sup>
WIDTH		< 180 cm

### SOLUTION ADVANTAGES:

**OFLEX™** pipe **offers the possibility to combine permeability with a structuring reinforcement.**

The glass fiber reinforcements deliver structure and thickness while the film allows the sheath to be continuously impregnated in the factory, and stored once impregnated. In situ impregnation, a source of problems, is thus no longer necessary. Consequently, the worksite can operate with optimal effectiveness.

Depending on the construction, the film also offers permeability and resistance to the relined sheath.



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