



Plastic pipes easily and reliably

# FV Plast FASER the new generation of multilayer PPR pipes with glass fibres



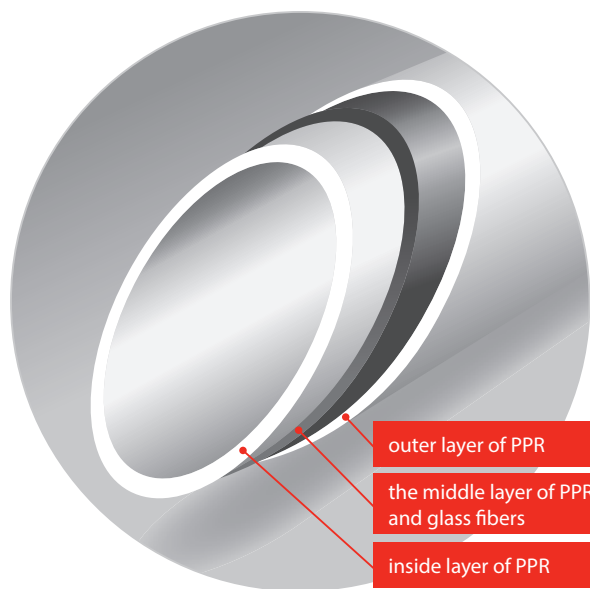
They are welded like the common PPR – it is not necessary to remove outer layers before welding



A higher range of working temperatures – shape resistance between 0 and 90 degrees Celsius



Over 50-year service life at 20 bar and 20 degrees Celsius



- outer layer of PPR
- the middle layer of PPR and glass fibers
- inside layer of PPR

# The new generation of multilayer PPR pipes with glass fibres

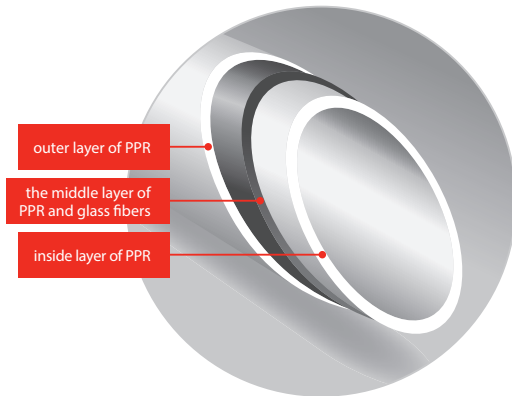
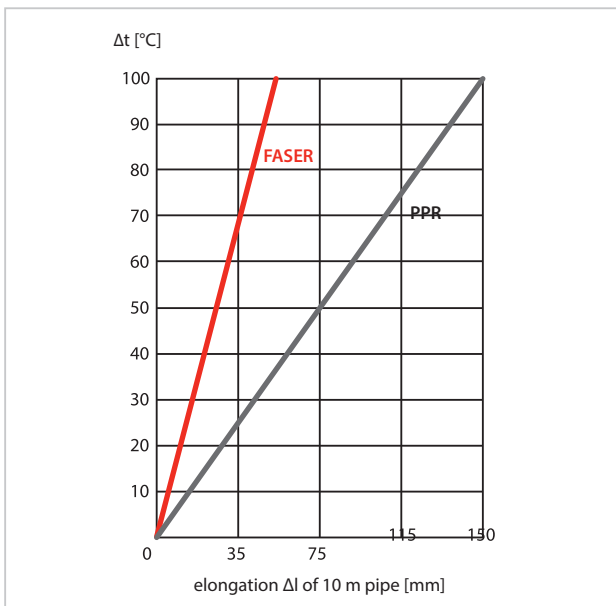
New multilayer pipes FV Plast FASER take use of the newest technology in the field of plastics – reinforcement by glass fibres.

### Key qualities of FV Plast FASER pipes:

- They are welded like the common PPR – it is not necessary to remove outer layers before welding.
- A higher range of working temperatures – shape resistance between 0 and 90 degrees Celsius.
- Over 50-year service life at 20 bar and 20 degrees Celsius.
- Higher stability – bigger distance of supports.
- Low temperature expandability ( $\alpha=0,05$ ) (compared with  $\alpha_{ppr}=0,15$ ).

Multilayer FASER pipes are composed of three layers. The inner and outer layers are made of the classical PPR. Between them there is a layer made of combined polypropylene and glass fibres. This layer provides the FASER pipe with a high reduction of supports.

### GRAPH OF THERMAL EXPANSION FASER PIPES OF DIFFERENT LENGTHS:



### Maximal operating parameters for using FASER pipes (in compliance with DIN 8077).

- Cold water piping: long-term load at the temperatures up to 20 degrees Celsius and service overpressure up to 20 bar
- Warm water piping: long-term load at the temperatures up to 70 degrees Celsius and service overpressure up to 10 bar
- Heating distribution: long-term load at the temperatures up to 70 degrees Celsius and service overpressure up to 3 bar

### SERVICE CONDITIONS OF PPR MULTILAYER PIPE FV PLAST FASER PN20

Temperature °C	Service life (years)					
	1	5	10	25	50	100
20	25	24,2	23,9	23,5	23,1	22,8
40	18,6	18	17,7	17,3	17,1	16,8
60	13,5	13	12,7	12,4	12,2	-
70	11,3	10,9	10,7	10,4	10,2	-

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