

# TECHNO PPR- MULTILAYER PIPES

## Product Description :

Techno PPR Glass fiber reinforced pipe (PPR/GF/PPR) consists of three layers where the inner and outer layers are produced of PPR, and the middle layer is produced of the special mixture of PPR + Glass fiber raw material.

**Techno PPR ML Green** (Outer layer - Green color / Middle layer - Dark Green color / Inner layer - Green color)

## CERTIFICATION:



## OPERATING CONDITION FOR (SDR 7.4/PN20) PIPE:

For Cold water application: 20 bars at 20°C. For Hot water application: 10 bars at 70°C. (Max 95°C for short peak)  
For **50 years life span**.



## Specifically for Indoor Installation:

- Suitable for hot and cold-water installations.
- Residential, Industrial, and public projects
- Agriculture

# TECHNO



# TECHNO PPR- MULTILAYER PIPES



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## MAIN ADVANTAGES OF THE PP-R GLASS FIBER REINFORCED PIPE COMPARED TO MONO LAYER PP-R PIPE :

- 1- Low Linear expansion ( $\alpha = 0,035 \text{ mm/mK}$ ) compared to standard PPR ( $\alpha = 0,15 \text{ mm/mK}$ )
- 2- The total quantity of clamps used is less, therefore total expenses reduce.
- 3- Higher flow rate by 20%
- 4- Lower weight than steel pipe, copper pipe
- 5- Increases the rigidity of the pipe, improves the strength of the pipe.
- 6- Thermal transmission in pipes is lower than iron, copper, and aluminum foiled PP pipes

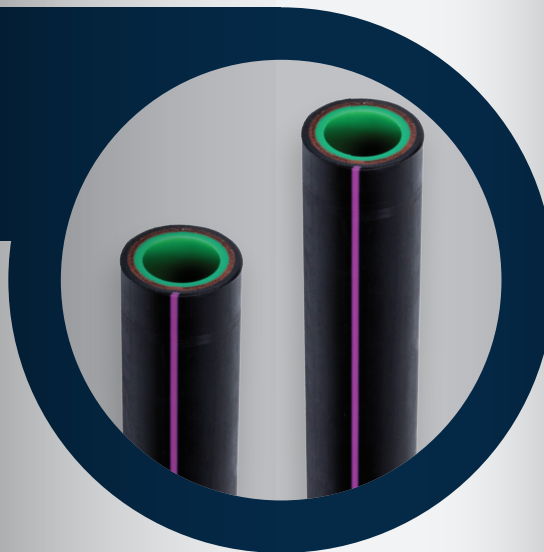
# TECHNO PPR ULTRAVIOLET (UV)

## Product Description :

Techno PPR UV Glass fiber reinforced pipe consists of three layers where the outer layers provide UV protection and it's made of specially stabilized PPR to make the pipe highly reliable, resistant to ageing and protect the pipe from degradation caused by exposure to sunlight and ultraviolet rays. The inner layer is made of PPR, and the middle layer is a special mixture of PPR and Glass fiber raw material.

**Techno PPR ML UV** (Outer layer – Black color / Middle layer – Dark Red color / Inner layer – Green color)

## CERTIFICATION:



## OPERATING CONDITION FOR (SDR 6/PN25) PIPE:

For Cold water application: 25 bars at 20°C. For Hot water application: 12.5 bars at 70°C. (Max 95°C for short peak)  
**For 50 years life span.**



# TECHNO PPR ULTRAVIOLET (UV)

## MAIN ADVANTAGES OF THE PP-R GLASS FIBER REINFORCED PIPE COMPARED TO MONO LAYER PP-R PIPE :

- 1- Low Linear expansion ( $\alpha = 0,035 \text{ mm/mK}$ ) compared to standard PPR ( $\alpha = 0,15 \text{ mm/mK}$ )
- 2- The total quantity of clamps used is less, therefore total expenses reduce.
- 3- Higher flow rate by 20%
- 4- Lower weight than steel pipe, copper pipe
- 5- Increases the rigidity of the pipe, improves the strength of the pipe.
- 6- Thermal transmission in pipes is lower than iron, copper, and aluminum foiled PP pipes



## Specifically for Outdoor Installation:

- Suitable for Hot and Cold drinking water application
- Residential, Industrial, and public projects
- Agriculture



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