

# polypropylene

Polypropylene (PP) piping systems are widely used in industrial processing. Light in weight yet with high impact strength and reliable heat fusion welding, PP also offers good abrasion resistance and is a good thermal and electrical insulator.

PP is suitable for working use at temperatures up to 90°C, and will withstand short term use at a maximum 110°C.

Chemical resistance is excellent: PP is resistant to aqueous solutions of acids, alkalis and salts, and to a large number of organic solvents.

PP systems are assembled using heat fusion welding, either using socket fittings or butt fusion of pipes and/or fittings end to end. Welding equipment is available for sale or hire and is featured in the Installation Tools section.

## application guide

- Temperature range 0°C to 90°C (Short Term 110°C)
- High impact strength
- Abrasion resistant
- Suitable for handling foodstuffs
- Ideal for above and below ground use
- Threading possible
- Resistant to acids, alkalis, salts and many organic solvents
- Good insulator
- Lightweight (density 0.905-0.92)
  
- Welding equipment required
- Not resistant to concentrated oxidising acids
- Thermal expansion is higher than other plastics

## standards and approvals

Pipe : BS 5556: 1978, DIN 8077/8078  
Fittings : DIN 16962  
Threaded fittings : BS21/DIN 2199/ISO 727

## section guide

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