

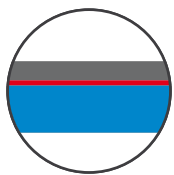


## Polybutylene

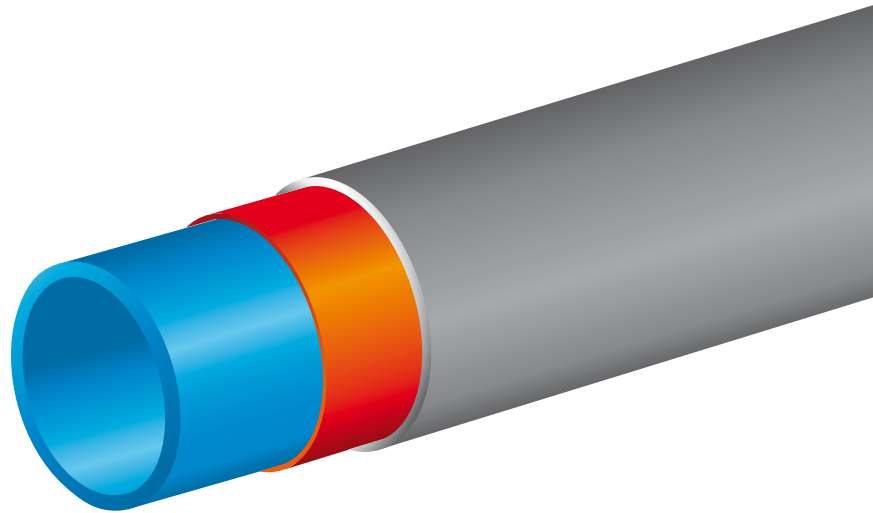
The flexible and durable plastic pipe for multi-purpose building and industrial applications

We produce polybutylene pipes with up to three layers. While the single-layer version is configured for drinking water installations, the three-layer pipes are oxygen tight in accordance with DIN 4726 and therefore suitable for heating systems and other areas.

The entire HakaGerodur range is backed by decades of experience in plastics processing. And this vast pool of knowledge is employed for the benefit of our customers.



- Oxygen tight layer, flexible and scratch resistant
- Plastic layer for force-fit connection
- Pipe wall



## Structure/Material

Plastic pipes are extruded from the especially flexible and durable basic material of polybutylene. The material is melted, shaped and then cooled. The adhesive between basic pipe and barrier layer allows force-fit and permanent jointing. Single-layer pipes without oxygen barrier are used for drinking water installations and in industrial applications. The pipes are jointed either by welding or with push-in connectors. For this purpose material PB 4237 grey is used. Multilayer pipes are installed in heating systems. The material used here is the quality PB 4235 beige.

## Dimensions

- Ø 6 mm to 110 mm
- Special dimensions and special tolerances on request

We would gladly send you a dimensions and tolerance table.

## Applications

- Surface heating and cooling (floor, wall, ceiling)
- Radiator connection
- Drinking water installation
- Industrial applications

## Approvals/Standards

- DVGW (German Technical and Scientific Association for Gas and Water) approval: DW-8321AL2001 DW-8326AP2015
- CSTB approval: CSTBat – 167-988
- SKZ monitored (SKZ symbol A161)
- Properties in accordance with DIN 16868/16869 and DIN EN ISO 15876-2

## Advantages

- + Oxygen-tightness (multilayer pipes) in accordance with DIN 4726. Coating the pipes with an EVOH layer achieves a high barrier effect.
- + Operational range max. 95°C, max. 10 bar, constant temperature 70°C.
- + Pipes made of PB are corrosion free. A reaction of the materials and their alteration can be excluded.
- + Weldable
- + Excellent stress crack resistance
- + Very flexible, tight bending radius and easy to lay (also cold laying)
- + No incrustation due to smooth inner pipe surface.
- + Low linear thermal expansion
- + Resistance to thermal and mechanical loading

## Additional Products



### Pipe in corrugated pipe

The pipe is drawn into a corrugated pipe at the factory. This protective pipe is available in the colours red, blue and black. It is recommended especially for drinking water installation and radiator connections.



### Accessories and tools

We offer accessories and tools for the use of polybutylene pipes and their laying (pipe cutters, calibrators, flexible springs, one-man coilers, presses, press jaws and much more).



### Pre-insulated pipes

Polybutylene pipes with prefabricated cold/heat insulation of thermally welded, extruded PE foam with a protective layer of a PE film are suitable for drinking water installations and radiator connections. The outer layer offers additional protection against UV radiation as well as against mechanical loading.

- Closed cell structure
- Temperature resistant
- Good thermal insulation
- Easy to assemble due to good bending properties



### Mounting rails

The mounting rail for underfloor heating developed by HakaGerdur engineers meets all functional needs and complies with the technical building requirements of professional associations. It is an extruded U-shaped fixing rail with stamped out pipe holding clips.

- Light, compact and low
- Quickly inserted and clipped in place
- Fixed to thermal insulation with double-sided adhesive tape or with fixing needles.
- Rail lengths 2.10, 3.00 and 3.90 metres



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