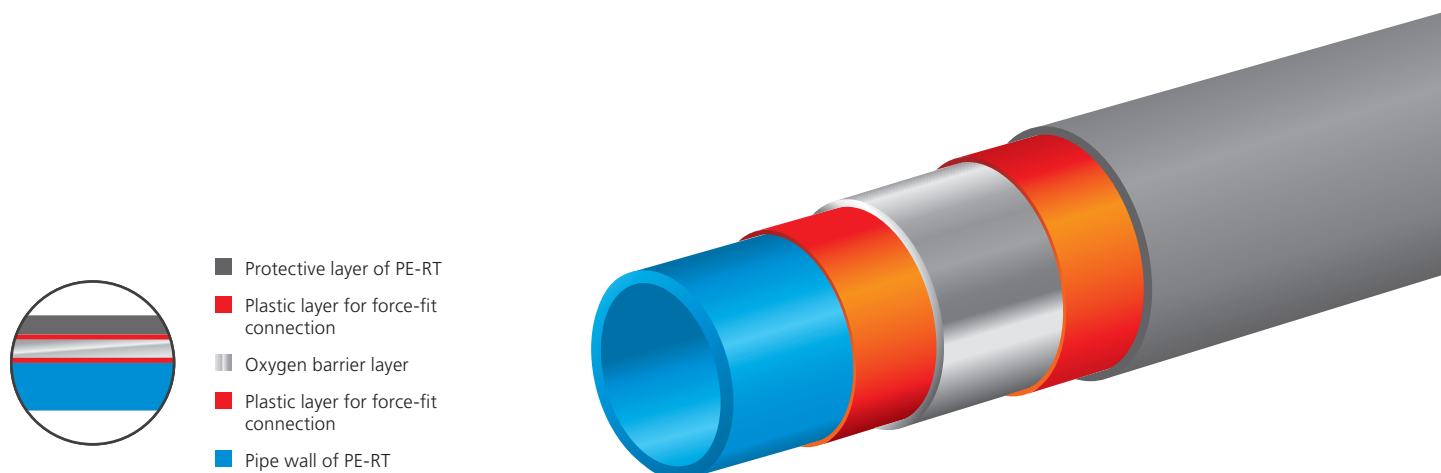


Polyethylene RT (PE-RT)

The thermally stable plastic pipe
for underfloor heating

The strong plastic pipe PE-RT is a member of the family of high quality underfloor heating pipes from HakaGerodur AG. The five-layer structure achieves a high degree of oxygen tightness and ensures that this is retained even under rough building site conditions.

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.



Structure/Material

For heating pipes of PE-RT (Raised Temperature) a specially modified polyethylene of medium density is used, the molecular structure and composition of which ensures very good thermal stability and a high degree of mechanical strength up to temperatures of 90°C.

The five-layer pipe structure is manufactured by means of extrusion in one single process.

The EVOH layer provides a very good oxygen barrier while the outer PE-RT layer protects the entire layer structures against exterior influences. The layers are connected permanently using force-fit methods via an adhesive.

Only the purest material qualities from renowned pipe material manufacturers are used.

Dimensions

- Ø 6 mm to 32 mm
- Special dimensions and special tolerances on request

We would gladly send you a dimensions and tolerance table.

Applications

- Surface heating and cooling
- Radiator connection
- Ceiling cooling

Approvals/Standards

- KOMO approval: K14254
- SKZ (Southern German Plastics Centre) monitored (SKZ symbol A236)
- Properties in accordance with DIN 16833/16834

Advantages

- | | |
|---|---|
| <ul style="list-style-type: none"> ➤ Oxygen-tight with co-extruded EVOH layer in accordance with DIN 4726 | <ul style="list-style-type: none"> ➤ Suitable for particularly rough laying conditions due to 5-layer technology |
| <ul style="list-style-type: none"> ➤ Operational range max. 90 °C, max. 6 bar, constant temperature 70 °C. | <ul style="list-style-type: none"> ➤ Flexible and easy to lay – can be laid cold |
| <ul style="list-style-type: none"> ➤ Pipes made of PE-RT are corrosion free. A reaction of the materials and their alteration can be excluded. | <ul style="list-style-type: none"> ➤ Tight bending radius possible |
| <ul style="list-style-type: none"> ➤ Weldable basic pipe | <ul style="list-style-type: none"> ➤ Resistant to numerous chemicals (details on request). |
| <ul style="list-style-type: none"> ➤ Excellent stress crack resistance | <ul style="list-style-type: none"> ➤ No incrustation due to smooth inner pipe surface. |
| | <ul style="list-style-type: none"> ➤ Low weight |

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 especially recommended for radiator connection.



Accessories and tools

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



Pre-insulated pipes

Strong plastic pipes with prefabricated cold/heat insulation of thermally welded, extruded PE foam with a protective layer of a PE film are suitable for 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 HakaGero-dur 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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