



---

## TIMÓLEON DATA SHEET TI70012 - UNDERFLOOR HEATING PIPE

---

# Polyethylene RT (PE-RT) Thermally stable plastic pipe for underfloor heating

---

### INTRODUCTION

---

Timoleon uses high quality PE-RT 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.

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 & APPLICATIONS

---

- ↘ 12mm, 16mm, 20mm
- ↘ Special dimensions and special tolerances on request
- ↘ We would gladly send you a dimensions and tolerance table.
- ↘ Surface heating and cooling
- ↘ Ceiling cooling

---

### APPROVALS & STANDARDS

---

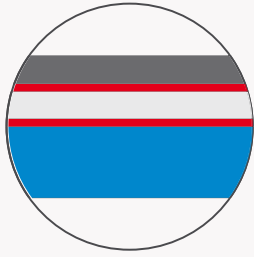
- ↘ KOMO approval: K14254
- ↘ SKZ (Southern German Plastics Centre) monitored (SKZ symbol A236)
- ↘ Properties in accordance with DIN 16833 / 16834

---

### ADVANTAGES

---

- ↘ Oxygen-tight with co-extruded EVOH layer in accordance with DIN 4726
- ↘ Operational range max. 90 °C (brief exposure - not operational), max. 6 bar, constant temperature -60 °C.
- ↘ Pipes made of PE-RT are corrosion free.
- ↘ A reaction of the materials and their alteration can be excluded.
- ↘ Weldable basic pipe
- ↘ Excellent stress crack resistance
- ↘ Suitable for particularly rough laying conditions due to 5-layer technology
- ↘ Flexible and easy to lay – can be laid cold
- ↘ Tight bending radius possible
- ↘ Resistant to numerous chemicals (details on request).
- ↘ No incrustation due to smooth inner pipe surface.
- ↘ Low weight



- Protective layer of PE-RT
- Plastic layer for force-fit connection
- Oxygen barrier layer
- Plastic layer for force-fit connection
- Pipe wall of PE-RT

