angle deviations in the pipe installation of up to 20° for small shrouds and 10° for large shrouds (testing carried out in accordance with the additionally increased requirements of EN 489. Tested by MFPA Leipzig GmbH).

- Efficient and safe insulation of branches and connections to underground RAUTHERMEX heating pipes
- Practically tool-free installation
- Simple positioning of the half shells via track grooves
- Quick adjustment to pipe dimensions thanks to flexible sealing ring system
- Outer ribbing guarantees stability even in the event of large static loads
- Injection-moulded half shells made from high-quality ABS plastic

## 04.05 Heat-shrink shroud system for RAUVITHERM and RAUTHERMEX



Fig. 04-22 Heat-shrink shrouds in T, I and L shape

The universal heat-shrink shrouds ensure the secondary insulation of connections, branches and changes in direction of pipe systems RAUVITHERM and RAUTHERMEX.

The shrouds are made of extremely robust and impact-resistant PE-HD.

- Simple and safe sealing due to the tried and tested heat-shrink technology
- No increased heat loss
- Robust components suitable for construction sites
- Area of application includes RAUVITHERM, RAUTHERMEX as well as various pipe combinations and connections to other manufacturers' systems
- Can be used flexibly on site

The heat-shrink shrouds (see Fig. 04-22) are available as T, I and L mouldings in two sizes in each case.

**Material properties of shrouds (PE-HD)**

| | |
|---|---|
| Thermal conductivity λ | 0.43 W/m·K |
| Crystallite melting range | 105–110 °C |
| Density ρ | 0.93 N/mm$^2$ |
| Modulus of elasticity E | 600 N/mm$^2$ |
| Construction material class (DIN 4102) | B2 (normal flammability) |

Tab. 04-3 Material properties of heat-shrink shrouds

**Heat-shrink sleeve for shroud set**



Fig. 04-23 Heat-shrink T-shroud set

The heat-shrink sleeve seals the shroud to the pre-insulated pipe. It is coated inside with a hot-melt adhesive to enable a secure and permanent seal.

**Material properties of heat-shrink sleeves**

| | |
|---|---|
| Tensile strength | 14 MPa |
| Max. expansion | 300% |
| Density ρ | 1.1 g/cm$^3$ |
| Water absorption | < 0.1% |
| Adhesive softening temperature | 80–90 °C |
| Construction material class (DIN 4102) | B2 (normal flammability) |

Tab. 04-4 Material properties of heat-shrink sleeves

REHAU heat-shrinkable shrouds can be used universally. They can be used for connecting RAUVITHERM and RAUTHERMEX pipes as well as for combinations with various other pipe systems or custom components.



Fig. 04-24 Fitting the heat-shrink T-shroud

You can find the installation instructions for heat-shrink shrouds at **www.rehau.uk/districtheating**.

The further development of the heat-shrink shroud range T, I and L including the heat-shrink sleeve technology enables angle deviations (α) of up to 20° for all sizes and shapes. This is tested and certified by the MFPA Leipzig for up to 5 m of water column.




Fig. 04-25 Angle deviations