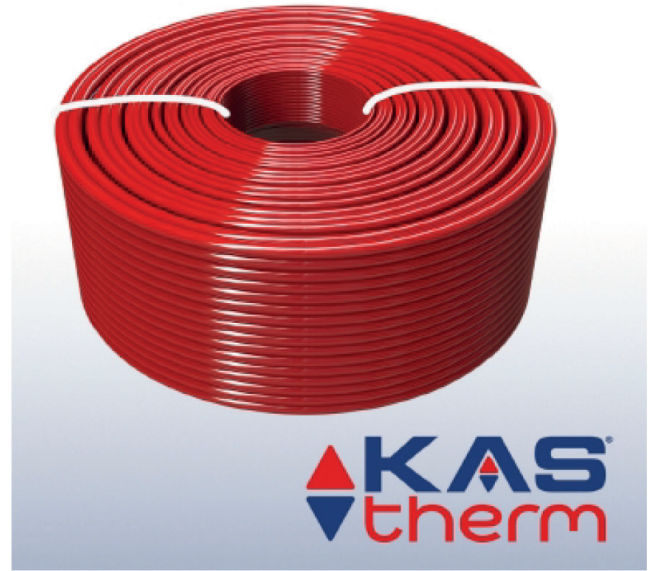
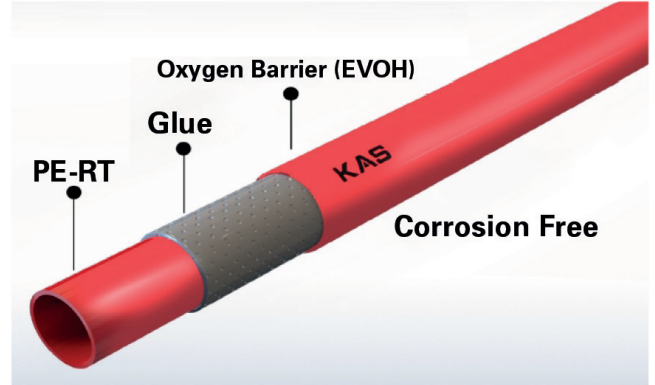


# PE-RT Pipe 3 Layer

# KAS®

| TECHNICAL DATA SHEET                 | 80.10.016-400                                                                                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name                         | Pe-Rt Pipe                                                                                                                                                                    |
| Dimensions                           | 16x2mm-(400 meter)                                                                                                                                                            |
| Standard                             | EN ISO 22391-2                                                                                                                                                                |
| Raw Material Type                    | Type - 2                                                                                                                                                                      |
| Oxygen Barrier and Number of Layer   | Oxygen Barrier – 3 Layers                                                                                                                                                     |
| Raw Material Density (DIN 53497)     | 0,941 g/cm3                                                                                                                                                                   |
| Flexibility (DIN 53457)              | 600N/mm2                                                                                                                                                                      |
| Minimum Bending Diameter             | 190 mm                                                                                                                                                                        |
| Heat Conduction Coefficient          | 0,40W/mK                                                                                                                                                                      |
| Reaction to Fire (EN 13501-1)        | E (Normal Flammable)                                                                                                                                                          |
| Maximum Test-Operating Temperature   | 95°C                                                                                                                                                                          |
| Maximum Operating Temperature        | 70°C                                                                                                                                                                          |
| Maximum Operating Pressure           | 6 bar                                                                                                                                                                         |
| Thermal Expansion Coefficient (40°C) | 0.00017 1/°K                                                                                                                                                                  |
| Surface Roughness                    | 0,000446 mm                                                                                                                                                                   |
| Purpose of use                       | In underfloor heating systems, by spreading its energy equally across the floor, it allows the hot water coming from the heat source to warm the space in which it is placed. |



## Pressure Strength Table

| Safety Factor = 1,5 |             |                                  | Safety Factor = 1,5 |             |                                  |
|---------------------|-------------|----------------------------------|---------------------|-------------|----------------------------------|
| Year                | Temperature | 16x2mm PE-RT Pipe Pressure (bar) | Year                | Temperature | 16x2mm PE-RT Pipe Pressure (bar) |
| 1                   | 20          | 18,6                             | 1                   | 60          | 12                               |
| 5                   | 20          | 18,2                             | 5                   | 60          | 11,7                             |
| 10                  | 20          | 18,1                             | 10                  | 60          | 11,5                             |
| 25                  | 20          | 17,9                             | 25                  | 60          | 11,4                             |
| 50                  | 20          | 16,9                             | 50                  | 60          | 11,2                             |
| 1                   | 30          | 16,6                             | 1                   | 70          | 10,3                             |
| 5                   | 30          | 16,5                             | 5                   | 70          | 10,1                             |
| 10                  | 30          | 16,3                             | 10                  | 70          | 9,9                              |
| 25                  | 30          | 16,1                             | 25                  | 70          | 9,8                              |
| 50                  | 30          | 15,3                             | 50                  | 70          | 9,6                              |
| 1                   | 40          | 15,0                             | 1                   | 80          | 8,8                              |
| 5                   | 40          | 14,8                             | 5                   | 80          | 8,5                              |
| 10                  | 40          | 14,6                             | 10                  | 80          | 8,4                              |
| 25                  | 40          | 14,5                             | 25                  | 80          | 8,2                              |
| 50                  | 40          | 13,6                             | 1                   | 95          | 6,5                              |
| 1                   | 50          | 13,3                             | 5                   | 95          | 6,3                              |
| 5                   | 50          | 13,2                             | 10                  | 95          | 6,2                              |
| 10                  | 50          | 13,0                             |                     |             |                                  |
| 25                  | 50          | 12,9                             |                     |             |                                  |
| 50                  | 50          |                                  |                     |             |                                  |

