



PE100-RC straight pipe is used widely within the geothermal industry as part of flow and return recirculation liquid systems.

It is fully compatible with all metric-sized electro-fusion, spigot and butt weld fittings.

Applications

- Ground source heat recovery systems

Features

- Virgin PE 100 resin
- Suitable for butt & electro-fusion welding
- Standard 6 & 12 metre lengths
- Special lengths available
- 10 bar - 16 bar pressure rating
- Manufactured to EN 12201-2 & EN 13244-2

| Specifications | | | | | | |
|-----------------------|---------------------|----------------------|---------------|---------------------|----------------------|---------------|
| | SDR 17 (PN 10) | | | SDR 11 (PN 16) | | |
| Outside Diameter [mm] | Wall Thickness [mm] | Inside Diameter [mm] | Weight [kg/m] | Wall Thickness [mm] | Inside Diameter [mm] | Weight [kg/m] |
| 20 | - | - | - | 1.9 | 16.2 | 0.118 |
| 25 | - | - | - | 2.3 | 20.4 | 0.173 |
| 32 | - | - | - | 2.9 | 26.2 | 0.282 |
| 40 | - | - | - | 3.7 | 32.6 | 0.434 |
| 50 | 2.9 | 44.2 | 0.458 | 4.6 | 40.8 | 0.673 |
| 63 | 3.6 | 55.8 | 0.728 | 5.8 | 51.4 | 1.06 |
| 75 | 4.3 | 66.4 | 1.03 | 6.8 | 61.4 | 1.48 |
| 90 | 5.1 | 79.8 | 1.47 | 8.2 | 73.6 | 2.14 |
| 110 | 6.3 | 97.4 | 2.19 | 10.0 | 90.0 | 3.18 |

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Specifications

| Outside Diameter [mm] | SDR 17 (PN 10) | | | SDR 11 (PN 16) | | |
|-----------------------|---------------------|----------------------|---------------|---------------------|----------------------|---------------|
| | Wall Thickness [mm] | Inside Diameter [mm] | Weight [kg/m] | Wall Thickness [mm] | Inside Diameter [mm] | Weight [kg/m] |
| 125 | 7.1 | 110.8 | 2.79 | 11.4 | 102.8 | 4.12 |
| 140 | 8.0 | 124.0 | 3.5 | 12.7 | 114.6 | 5.13 |
| 160 | 9.1 | 141.8 | 4.57 | 14.6 | 130.8 | 6.74 |
| 180 | 10.2 | 159.6 | 5.77 | 16.4 | 147.2 | 8.51 |
| 200 | 11.4 | 177.2 | 7.12 | 18.2 | 163.6 | 10.5 |
| 225 | 12.8 | 199.4 | 9.03 | 20.5 | 184.0 | 13.3 |
| 250 | 14.2 | 221.6 | 11.1 | 22.7 | 204.6 | 16.3 |
| 280 | 15.9 | 248.2 | 13.9 | 25.4 | 229.2 | 20.5 |
| 315 | 17.9 | 279.2 | 17.6 | 28.6 | 257.8 | 25.9 |
| 355 | 20.1 | 290.6 | 22.4 | 32.2 | 290.6 | 32.9 |
| 400 | 22.7 | 354.6 | 28.3 | 36.3 | 327.4 | 41.7 |

Material

| Property | Standard | Unit | Value |
|---------------------------|----------|-------------------|-------|
| Density | ISO 1183 | g/cm | 0.96 |
| Melt Flow Index (190/5) | ISO 1133 | g/10min | 0.3 |
| Tensile stress at yield | ISO 527 | MPa | 25 |
| Elongation at yield | ISO 527 | % | 9 |
| Elongation at break | ISO 527 | % | >600 |
| Impact strength (notched) | ISO 179 | kJ/m ² | 16 |
| Modules of elasticity | ISO 527 | MPa | 1300 |