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Technical data sheet

PE100RC pressure pipe

V1.01/2025



These pipes are designed for the transport of low-temperature solutions and for the installation of ground-source systems for heat pumps**.** The pipes are manufactured as standard in four pressure classes:

- SDR 17 (PN 10),
- SDR 13.6 (PN 12.5),
- SDR 11 (PN 16),
- SDR 9 (PN 20).

The product is available in black. It is characterised by very good mechanical properties (MRS 10 MPa, relative elongation at break ≥350%), resistance to crack propagation (material from the RC group – Resistant to Crack) and high chemical resistance.

The product is available in sizes ranging from **Ø32 mm to Ø110 mm**.

The product complies with the PN-EN 12201-2+A1:2013-12 standard and the chemical resistance table. It is supplied in coils with a minimum internal diameter of >18dn or in straight lengths packed in a plastic sleeve. In the case of plastic sleeves, the maximum length of a single pipe section is 4 m.

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Table 1 sets out the properties of the raw material used in the manufacture of all PRAWTECH pressure pipes.

Table 1. Properties of the raw material used in production (PE100RC).

PROPERTIES OF THE PELLETS	TYPICAL VALUE	UNIT	TEST METHOD
Colour	black	-	-
Melt Flow Rate (MFR) at 190ºC and 5 kg	0.2	g/10 min	ISO 1133
Density	956–962	kg/m³	ISO 1183
Carbon black content	2.25	%	ISO 6964
Modulus of elasticity	1000	MPa	ISO 527-2
Tensile strength at yield	23–35	MPa	ISO 527-2
Elongation at yield	≥8	%	ISO 527-2
Notch test	>8760	h	EN ISO 13479
Shoer hardness (D)	62	-	ISO 868
Melting point	124–128	°C	DIN 53765
OIT oxidation induction time at 210 ºC	>20	min	ISO 11357-6
Thermal conductivity coefficient	0.42	W/m*K	-
Absolute roughness k	0.03	mm	-
Circumferential stiffness (SDR 13.6)	>41.7	kN/m²	PN-EN 12201