

DOMESTIC CERTIFICATE OF CONSTANCY OF PERFORMANCE No. 005 – UWB – 021

In compliance with the Decree of Infrastructure and Construction Minister of 17th November, 2016 in case of methods of declaring performance of construction products and method of marking them with the building mark (Journal of Laws, item 1966), this certificate applies to the construction product:

**Polyethylene pipes for the supply of gaseous fuels made of material PE 100 and PE 100-RC,
with one, two and three layers and with additional PP layer,
with range of diameters 25÷630 and with SDR 11; SDR 17; SDR 17,6,
in accordance with Enclosure No. 1.**

(type, levels and classes of performance of the product according to PN-EN 1555-2:2021-12)

covered by Polish Standard:

**PN-EN 1555-2:2021-12
IDT EN 1555-2:2021**

placed on the market under manufacturer's name or mark:

**Radpol Pipes sp. z o.o.
Kolonja-Prawiedniki 57
20-515 Lublin**

manufactured in production place:

**Radpol Pipes sp. z o.o.
Kolonja-Prawiedniki 57
20-515 Lublin**

This certificate attests that all provisions, resulting from domestic system 1, concerning the assessment and verification of constancy of performance, for the declared performances of the product in relation to the intended use set out in this certificate are applied and that:

the manufacturer has implemented the factory production control system to ensure constancy of the performance.

This certificate was first issued on 14.12.2017 and will remain valid as long as neither the polish standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the accredited product certification body.

DYREKTOR DS. CERTYFIKACJI



dr inż. Tomasz Włodek



PREZES ZARZĄDU



mgr inż. Edward Makieja

Katowice, 31.07.2024

The validity of this certificate can be proven under following phone numbers: +48 32 7040 106, - 109, - 125.

Polyethylene pipes for the supply of gaseous fuels made of PE 100 and PE 100-RC materials

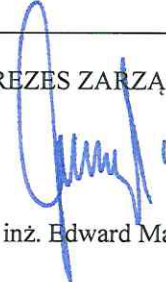
PE class	Essential characteristics	Declared properties
PE 100 PE 100-RC	Geometrical characteristics (mean outside diameter, ovality, wall thickness)	Achieved
	Hydrostatic strength 20 °C, 100 h 80 °C, 165 h 80 °C, 1000 h	Without break
	Elongation at break	≥ 350%
	Resistance to slow crack growth	Without break
	Oxidation induction time OIT (thermal stability), 210 °C	≥ 10 min
	Melt mass-flow rate MFR	max ± 20% of the value measured on the batch used to manufacture the pipe
	Longitudinal reversion (for wall thickness ≤ 16 mm)	≤ 3%
	Resistance to squeeze-off technique	Properties maintained
	Delamination (only co-extruded pipes)	Without delamination
	Integrity of the structure (only co-extruded pipes)	> 80% of the initial stiffness value
PE 100-RC	Resistance to slow crack growth (ANPT)	Without break
	Resistance to slow crack growth (SHT)	≥ 50 MPa
	Resistance to slow crack growth (CRB)	≥ 1,5 x 10 ⁶ cycles

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