

NATIONAL DECLARATION OF PERFORMANCE

No. 34b/ZR/23

1. Name and trade name of the construction product:

TWINGAM single-layer and double-layer polyethylene pipes for water, domestic water supply and sewerage under pressure and for casing applications DN 20-800 mm

2. Designation of construction product type:

SDR 7.4; SDR 9; SDR 11; SDR 13.6; SDR 17; SDR 17.6; SDR 21; SDR 26; SDR 33; SDR 41 – PE 100RC, PE 100/PE 100RC, PE 100RC/PE 100RC

3. Intended use(s):

TWINGAM single-layer and double-layer polyethylene pipes are designed for the construction of pressurized water supply systems and networks (also the supply of water intended for human consumption) and pressure, vacuum and gravity sewer facilities and networks. The pipes can also be used as casing pipes. Networks made of TWINGAM pipes and fittings can be laid in native soil, without bedding and backfilling, using traditional and narrow-trench methods. They can also be used for trenchless construction and renovation of pipe networks.

4. Manufacturer's name and registered office address and place of production:

Gamrat SA, 38-200 Jasło, ul. Mickiewicza 108, Jasło Plant

5. Authorized representative's name and registered office address, if any:

not applicable

6. The national system used to assess and verify the constancy of performance:

"System-4"

7. National technical specification:

7a. Polish Standard for the product:

PN-EN 12201-2+A1:2013 "Plastics piping systems for water supply, and for drainage and sewerage under pressure – Polyethylene (PE) – Part 2: Pipes"

Name of the accredited certification body, accreditation number and national certificate number or the name of the accredited laboratory/laboratories and accreditation number:

not applicable

7b. National Technical Assessment:

not applicable

Technical assessment unit/National technical assessment unit:

not applicable

Name of the accredited certification body, accreditation number and certificate number:

not applicable

8. Declared performance:

<i>Essential characteristics of the construction product for the intended use or uses</i>	<i>Declared performance</i>	<i>Notes</i>
Material properties	In accordance with PN-EN 12201-2+A1:2013, Clause 4 and PN-EN 12201-1+A1:2012, Clauses 4.2, 4.3, 4.4, 4.5, 4.6, 5	Based on declarations/certificates of the material manufacturer
Appearance and colour	In accordance with PN-EN 12201-2+A1:2013, Clauses 5.1, 5.2	
Dimensions	In accordance with PN-EN 12201-2+A1:2013, Clauses 6.2, 6.3, 6.4, 6.5	
Oxidation induction time	≥ 20 min, In accordance with PN-EN 12201-2+A1:2013, Clause 8.2	
Melt mass-flow rate (MFR)	± 20% In accordance with PN-EN 12201-2+A1:2013, Clause 8.2	
Longitudinal reversion	≤ 3% In accordance with PN-EN 12201-2+A1:2013, Clause 8.2	
Elongation at break	≥ 350% In accordance with PN-EN 12201-2+A1:2013, Clause 7.2	
Hydrostatic strength of pipes	In accordance with PN-EN 12201-2+A1:2013, Clause 7.2 20°C, 100 h 80°C, 165 h 80°C, 1000 h	
Integrity of the structure	In accordance with PN-EN 12201-2+A1:2013, Annex B	
Effect on water quality	In accordance with PN-EN 12201-2+A1:2013, Clause 5.3	Hygienic approval No. B.BK.60110.0174.2023, which is valid until 08.02.2026.
Marking	In accordance with PN-EN 12201-2+A1:2013, Clause 11	

9. The performance of the product identified above is in conformity with all declared performance characteristics listed in Section 8. This National Declaration of Performance is issued in accordance with the Act on Construction Products of April 16, 2004, under the sole responsibility of the manufacturer.

Signed for and on behalf of the manufacturer by:

Jerzy Pachana – Board Member, General Director

(name and position)

**Członek Zarządu
Dyrektor Generalny**

Jerzy Pachana

(signature)

Jasło, 08.02.2023

(place and date of issue)

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