

## **NATIONAL DECLARATION OF PERFORMANCE**

**No. 34/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:

**not applicable**

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:

**ITB-KOT-2019/1195 dated 27.11.2019 "TWINGAM pipes and fittings of PE 100 and PE 100RC polyethylene"**

Technical assessment unit/National technical assessment unit:

**Instytut Techniki Budowlanej**

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>
<b>Material properties</b>	In accordance with ITB-KOT-2019/1195, Annex B	Based on declarations/certificates of the material manufacturer
<b>Appearance and colour</b>	In accordance with ITB-KOT-2019/1195, Annex A	
<b>Dimensions</b>	In accordance with ITB-KOT-2019/1195, Annex A	
<b>Oxidation induction time</b>	≥ 20 min, In accordance with ITB-KOT-2019/1195, Clause 3	
<b>Melt mass-flow rate (MFR)</b>	± 20% In accordance with ITB-KOT-2019/1195, Clause 3	
<b>Longitudinal reversion</b>	≤ 3% In accordance with ITB-KOT-2019/1195, Clause 3	
<b>Elongation at break</b>	≥ 350% In accordance with ITB-KOT-2019/1195, Clause 3	
<b>Resistance to internal pressure</b>	In accordance with ITB-KOT-2019/1195, Clause 3	
<b>Integrity of the structure</b>	In accordance with ITB-KOT-2019/1195, Clause 3	
<b>Tensile strength for butt fusion joint</b>	In accordance with ITB-KOT-2019/1195, Clause 3	
<b>Resistance to slow crack growth (Notch Test)</b>	In accordance with ITB-KOT-2019/1195, Clause 3	
<b>Full Notch Creep Test (FNCT)</b>	In accordance with ITB-KOT-2019/1195, Clause 3	
<b>Resistance of pipes to point loading</b>	In accordance with ITB-KOT-2019/1195, Clause 3	
<b>Effect on water quality</b>	In accordance with ITB-KOT-2019/1195, Clause 2	Hygienic approval No. B.BK.60110.0174.2023, which is valid until 08.02.2026.
<b>Marking</b>	In accordance with ITB-KOT-2019/1195, Annex A	

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)