Gamrat

NATIONAL DECLARATION OF PERFORMANCE

No. 30/ZR/22

1. Name and trade name of the construction product:

   TWINGAM single-layer and double-layer polyethylene pipes for the supply of gaseous fuels DN 20-800 mm

2. Designation of construction product type:

   PE 100RC, PE 100RC/PE 100RC – SDR 11; SDR 17; SDR 17.6

3. Intended use(s):

   TWINGAM single-layer and double-layer polyethylene pipes for the supply of gaseous fuels are used for the construction of gas networks using appropriate pipe laying methods.

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-1"

7. National technical specification:

   7a. Polish Standard for the product:

   PN-EN 1555-2:2021-12 "Plastics piping systems for the supply of gaseous fuels – 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:

   ZETOM Katowice AC 005, National Certificate of Constancy of Performance 005-UWB-077

   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:

Essential characteristics of the construction product for the intended use or uses	*Declared performance*	*Notes*
Material properties	In accordance with PN-EN 1555-2:2021-12, Clause 5 and PN-EN 1555-1:2021, Clauses 5.1, 5.2, 5.3, 5.4, 5.5	Based on declarations/certificates of the material manufacturer
Appearance and colour	In accordance with PN-EN 1555-2:2021-12, Clauses 6.1, 6.2	
Dimensions	In accordance with PN-EN 1555-2:2021-12, Clause 7	
Oxidation induction time	≥ 20 min, In accordance with PN-EN 1555-2:2021-12, Clause 9.2	
Melt mass-flow rate (MFR)	± 20% In accordance with PN-EN 1555-2:2021-12, Clause 9.2	
Longitudinal reversion	≤ 3% In accordance with PN-EN 1555-2:2021-12, Clause 9.2	
Elongation at break	≥ 350% In accordance with PN-EN 1555-2:2021-12, Clause 8.2	
Hydrostatic strength of pipes	In accordance with PN-EN 1555-2:2021-12, Clause 8.2 20°C, 100 h 80°C, 165 h 80°C, 1000 h	
Circumferential reversion of pipes	In accordance with PN-EN 1555-2:2021-12, Clause 7.4	
Resistance to slow crack growth Strain Hardening Test (SHT)	In accordance with PN-EN 1555-2:2021-12, Clause 8.2	
Resistance to slow crack growth Accelerated Notched Pipe Test (ANPT)	In accordance with PN-EN 1555-2:2021-12, Clause 8.2	
Resistance to slow crack growth Crack Round Bar Test (CRB)	In accordance with PN-EN 1555-2:2021-12, Clause 8.2	
Resistance to rapid crack propagation (RCP)	In accordance with PN-EN 1555-2:2021-12, Clause 8.2	
Integrity of the structure	In accordance with PN-EN 1555-2:2021-12, Clause A.8	
Delamination	In accordance with PN-EN 1555-2:2021-12, Clause A.7	
Tensile strength for butt fusion joint	In accordance with PN-EN 1555-2:2021-12, Clause 10 and PN-EN 1555-5:2021-12, Clause 5.2.2.1	
Resistance to squeeze-off	In accordance with PN-EN 1555-2:2021-12, Annex C	
Marking	In accordance with PN-EN 1555-2:2021-12, 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, 10.01.2023
(place and date of issue)

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