

**BT Nyloplast GmbH**

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## National declaration of performance No. 2017.001.001

**1. The name and trade name of the product:**

Fittings made of polyvinyl chloride (PVC-U), diameters:  
DN110, DN125, DN160, DN200, DN250, DN315, DN400

Bends: DN 110, DN 125, DN 160, DN 200, DN 250, DN 315, DN 400  
Plug: DN 110, DN 125, DN 160, DN 200, DN 250, DN 315, DN 400  
Coupler: DN 110, DN 125, DN 160, DN 200, DN 250, DN 315, DN 400  
Reducer: DN 125/110, DN 160/110, DN 160/125, DN 200/160, DN 250/200, DN 315/250,  
DN 400/315  
Branch: DN 110/110, DN 125/110, DN 125/125, DN 160/110, DN 160/125, DN 160/160,  
DN 200/110, DN 200/125, DN 200/160, DN 200/200, DN 250/110, DN 250/125,  
DN 250/160, DN 250/200, DN 250/250, DN 315/110, DN 315/125, DN 315/160,  
DN 315/200, DN 315/250, DN 315/315, DN 400/160,  
DN 400/200  
T-piece: DN 110/110, DN 125/110, DN 125/125, DN 160/110, DN 160/125, DN 160/160,  
DN 200/110, DN 200/125, DN 200/160, DN 200/200, DN 250/110, DN 250/125,  
DN 250/160, DN 250/200, DN 250/250, DN 315/110, DN 315/125, DN 315/160,  
DN 315/200, DN 315/250, DN 315/315, DN 400/160,

**2. Type of product:**

Fittings intended to be used outside the building structure, PVC-U, SDR 34 (DN = 110)  
Fittings intended to be used outside the building structure, PVC-U, SDR 41 (DN ≥ 110)

**3. Intended use or uses:**

Drainage and sewerage fittings made of PVC-U, intended to be used outside the building structure (application area code "U") and buried in ground within the building structure and outside the building (marked with "UD").

**4. Name and address of the producer and place of production of a product::**

BT Nyloplast GmbH; Oberbernbacher Weg 24, 86551 Aichach, Germany, plant in Aichach;

**5. Name and address of the authorized representative if it has been established: not applicable****6. The national system used to assess and verification constancy of performance: 4**

BT Nyloplast GmbH, part of Tessengerlo Group

UST-IDNR.: DE 159.812 055  
Registergericht Augsburg HRB 27724  
Geschäftsführer: Gabriel Spruijt, Roy Kuipers,  
Joep van den Bosch

HypoVereinsbank Augsburg  
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## 7. National Technical Specification:

### 7a. Standard:

EN 1401-1:2009

"Plastic piping systems for non-pressure underground drainage and sewerage. Unplasticized poly(vinyl chloride) (PVC-U). Specifications for pipes, fittings and the system"

**Name of the accredited certification body, accreditation number and number of national certificate or the name of an accredited laboratory / laboratories and accreditation number:**  
not applicable

**7b. National technical assessment:** not applicable

**Name of National technical assessment accreditation number and certificate number:**  
not applicable

## 8. Declared performance of product:

Main characteristics of product for the intended use or uses	Declared performance	Remarks
PVC content	PVC ≥ 85 % in material mixture	Calculated based on the manufacturer's recipe, EN 1401-1:2009, point. 4.1
Resistance to internal pressure	No failure during the test period	To be tested in pipe form on DN 50 mm, test conditions in accordance to EN 1401-1:2009, point 4.3
Appearance	The internal and external surfaces of pipes and fittings shall be smooth, clean and free from grooving, blistering, impurities and pores and any other surface irregularity	
Colour	The fittings shall be coloured through the wall.	
Dimensions	According to the marking on the product; Bends: DN 110, DN 125, DN 160, DN 200, DN 250, DN 315, DN 400 Plug: DN 110, DN 125, DN 160, DN 200, DN 250, DN 315, DN 400 Coupler: DN 110, DN 125, DN 160, DN 200, DN 250, DN 315, DN 400 Reducer: DN 125/110, DN 160/110, DN 160/125, DN 200/160, DN 250/200, DN 315/250, DN 400/315, Branch: DN 110/110, DN 125/110, DN 125/125, DN 160/110, DN 160/125, DN 160/160, DN 200/110, DN 200/125, DN 200/160, DN 200/200, DN 250/110, DN 250/125, DN 250/160, DN 250/200, DN 250/250, DN 315/110, DN 315/125, DN 315/160, DN 315/200, DN 315/250, DN 315/315, DN 400/160, DN 400/200 T-piece: DN 110/110, DN 125/110, DN 125/125, DN 160/110, DN 160/125, DN 160/160, DN 200/110, DN 200/125, DN 200/160, DN 200/200, DN 250/110, DN 250/125, DN 250/160, DN 250/200, DN 250/250, DN 315/110, DN 315/125, DN 315/160, DN 315/200, DN 315/250, DN 315/315, DN 400/160	Dimensional tolerances according to EN 1401-1:2009, point. 6.3 and 6.4
Mechanical properties	Impact resistance (drop test): no cracks,	Test conditions in accordance to EN 1401-1:2009, point 7.2



Main characteristics of product for the intended use or uses	Declared performance	Remarks
Physical properties	Vicat softening temperature (VST) $\geq 77$ °C.	(VST) $\geq 79$ °C – only for marked with "UD" and DN $\leq 200$ mm Test conditions in accordance to EN 1401-1:2009, point 8.2
	Effects of heating: <ul style="list-style-type: none"> <li>- within a radius of 15 times the wall thickness around the injection point(s), the depth of cracks, delamination or blisters shall not exceed 50 % of the wall thickness at that point;</li> <li>- within a distance of 10 times the wall thickness from the diaphragm zone, the depth of cracks, delamination or blisters shall not exceed 50 % of the wall thickness at that point;</li> <li>- within a distance of 10 times the wall thickness from the ring gate, the length of cracks shall not exceed 50 % of the wall thickness at that point;</li> <li>- the weld line shall not have opened more than 50 % of the wall thickness at the line;</li> <li>- in all other parts of the surface the depth of cracks and delaminations shall not exceed 30 % of the wall thickness at that point. Blisters shall not exceed a length 10 times the wall thickness.</li> <li>- After cutting through the fitting, the cut surfaces shall show no foreign particles, when viewed without magnification.</li> </ul>	Test conditions in accordance to EN 1401-1:2009 point 8.2
Leaktightness	Tightness of elastomeric sealing ring joints: no leakage during the water test, tight during the under pressure test (acceptable vacuum change 0.03bar)	Test conditions in accordance to EN 1401-1:2009, point 9
	Resistance to combined temp. cycling and external loading test: no leakage during the test	Test conditions in accordance to EN 1401-1:2009, point 9

9. The performance of the product identified above are compatible with all listed in Section 8 declared performance. This National declaration of performance is issued in accordance with legal act of 16 April 2004 concerning building products, under the responsibility of the producer.

On behalf of the Producer signed:

*Steffen Kure, Teamleader Quality Assurance*  
 .....  
 (name, surname and position)

*Aichach, 06.02.2019*

(place and date)

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