

**Inspection report:** 429810/1.1/92708

**Client:** POLIPLAST Sp. Z.o.o.  
ul. Energetyczna 6  
PL-56-400 OLESNICA

**Production plant:** PL-56-400 Olesnica

**Third party control:** 1<sup>st</sup> half-year 2010

**Product:** Domestic waste pipe, group 1  
Pipe PP DN 50  
Trade name: "POLIphon"

**Letter of:** --- **Reference:** ---

**Samples received:** 2010-07-02 **Sampling:** 2010-06-02


**Test period:** 2010-08-07 to 2010-11-19

**Result:** The requirements of allgemeine bauaufsichtliche  
Zulassung Z-42.1-399 of DIBt are met.

The inspection report comprises 3 pages.

Würzburg, 2010-11-26  
Wi/Sz/stei

i. V.

  
Dr.-Ing. Günter Nawroth



i. A.

  
Dipl.-Ing. Christian Winkler

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## 1. Inspection scope

The inspection scope complies with allgemeine bauaufsichtliche Zulassung Z-42.1-399 of Deutsches Institut für Bautechnik (DIBt).

## 2. Sampling

The samples were taken by an inspector of SKZ - TeConA GmbH on 2 June 2010 at the production plant in PL-56-400 Olesnica.

## 3. Results

### 3.1 Dimensions

designation	actual value in mm		set value in mm	
	maximum	minimum	maximum	minimum
outside diameter $d_1$	50.1	50.1	50.3	50.0
wall thickness $e_{1ges}$	2.0	1.9	2.2	1.8
wall thickness $e_{1in}$	0.3	0.3	---	0.3
wall thickness $e_{1aus}$	0.3	0.3	---	0.3
wall thickness of socket $e_2$	2.1	1.9	---	1.6
wall thickness of bead $e_3$	1.9	1.8	---	1.0
socket depth A	---	29.3	---	28.0
width of bead f	8.6	8.4	9.0	8.0
socket length behind the bead C	18.0	---	18.0	---

### 3.2 Material properties

designation	unit in	mean value	set value
melt mass-flow rate MFR 230/2.16	g/(10 min)	0.35	$\leq 1.4$
density of the center layer DN 40 – DN 50	g/cm <sup>3</sup>	0.92	0.9 – 1.1
longitudinal reversion	%	0.3	$\leq 2.0$
thermal stability OIT 200°C	min	38.6	$\geq 8$
diametral stiffness	KN/m <sup>2</sup>	8.5	$\geq 4.0$

### 3.2.1 Resistance to external blows (round-the-clock method)<sup>1</sup>

designation	unit in	actual value	set value
temperature	°C	0 ± 1	0 ± 1
mass of striker	kg	1,0	1,0
fall height of striker	mm	1600	1600
number of test pieces	---	6	6
number of impacts	---	> 25	≥ 25
failures	---	0	---
breaking rate	%	0	≤ 10

<sup>1</sup> was carried out at the production plant  
was carried out on dimension DN 110

- 3.3 Condition after heat ageing: without objection
- 3.4 Surface finish: without objection
- 3.5 Condition as delivered and colour: without objection
- 3.6 Marking of the pipes: POLIPhon® PP/PP-MD/PP Dimension EN1451 50x1.8BD  
EN1411\*Ü-SKZ 18-05-2010r D.Z.nr 30/2 z dn. 15-10-2007 r. EN  
13501-E DIN 4102-B2.z-42.1-399 AT/2006-02-1604 time Poliplast  
Sp. z o.o. Oleśnica, ul. Energetyczna 6 Z:1 L:5 Δ PP logo
- 3.7 Colour of the pipes: blue / white / grey
- 3.8 Marking of the sealing ring: Art. 581 M.O.L. Ø 50 / DN 50 EN 681-1/WCL/60 KOMO DNV  
2-29 10
- 3.9 Fire behaviour: The material tested within the scope of the third-party inspection complies with the requirements of non-flammable building materials (building material class DIN 4102-B2) according to DIN 4102-1.

### 4. Assessment of production plant

Assessment of laboratory staff and device equipment as well as internal production control.  
Result: without objection



**Inspection report:** 430310/1.3/92728

**Client:** POLIPLAST Sp. Z.o.o.  
ul. Energetyczna 6  
PL-56-400 OLESNICA

**Production plant:** PL-56-400 Olesnica

**Third party control:** 1<sup>st</sup> half-year 2010

**Product:** Waste and sewage pipes, group 1  
Double socket PP-HT DN 50  
System name: "AMAX 2"  
Application area: "B"

**Letter of:** --- **Reference:** ---

**Samples received:** 2010-07-02 **Sampling:** 2010-06-02

**Test period:** 2010-10-14 to 2010-11-10

**Result:** The requirements of DIN EN 1451-1: 1999-03 and DIN 19560-10: 1999-03 are met subject to the fire behaviour test.

The inspection report comprises 2 pages.

Würzburg, 2010-11-11  
Wi/Pfu/schm

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Dr.-Ing. Günter Nawroth



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**1. Inspection scope**

The inspection scope complies with DIN EN 1451-1: 1999-03 and DIN 19560-10: 1999-03.

**2. Sampling**

The samples were taken by an inspector of SKZ - TeConA GmbH on 02 June 2010 at the production plant PL-56-400 Olesnica.

**3. Results**


**3.1 Dimensions**

designation		actual value in mm				set value in mm	
		maximum	minimum	maximum	minimum	maximum	minimum
inside diameter of socket	$d_s$	50.9	51.0	50.8	50.8	---	50.3
wall thickness of socket	$e_2$	2.0	2.0	1.6	1.6	---	1.6
wall thickness of bead	$e_3$	2.5	2.6	2.2	2.2	---	1.0
length behind the bead	A	---	---	35.8	35.8	---	28.0

**3.2 Material properties**

designation	unit in	mean value	set value
melt mass-flow rate MFR 230/2.16	g/(10 min)	0.95	≤ 3.0

3.3 Condition: without objection

3.4 Marking of the fittings: AMAX<sub>2</sub> HTU 50 EN 1451 B PP-H DIN 4102 B1<sup>+</sup> ÜSKZ  2010 logo

3.5 Colour of the fittings: grey

3.6 Marking of the sealing ring: ROG ROBBER PRODUCTS EN 681-1/WCL/60 SBR BL DN 50 CE 2010

3.7 Fire behaviour test: The fire behaviour test is conducted by the BAY 26 inspection body.

**4. Assessment of the production plant**

Assessment of laboratory staff and device equipment as well as internal production control.

Result: without objection