

Inspection report: 351110/0.1/94478

Client: Techno Plast
Victoria Brigde - Barada Street
Hammami Bld - 6th Floor
SYR- DAMASCUS

Production plant: D-SYRIA Damascus-Saydanaya

Third party control: 2010

Product: Heating pipes
Pipe PP-R 32 x 5.4 mm
SKZ-mark no.: A 366

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

Samples received: 2010-10-26 **Sampling:** 2010-10-21

Test period: 2011-03-16 to 2011-05-06

Result: The requirements of the HR 3.3; 2006-05 specification for tests and inspection of SKZ - TeConA GmbH are met.

The inspection report comprises 3 pages.

Würzburg, 2011-05-13
Sz/stei

i. A.

Dipl.-Ing. Christian Winkler

international akkreditiert

SKZ - TeConA GmbH

i. A.

Martin Schütz

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Deutscher
Akkreditierungs
Beitrag
DAR
DAP-PL-3978:00
DGA-IS-2005:00

1. Inspection scope

The inspection scope complies with the HR 3.3: 2006-05 specification for tests and inspection of SKZ - TeConA GmbH.

2. Sampling

The samples were taken by an inspector of SKZ - TeConA GmbH on 21 October 2010 at the production plant in SYR-Damascus-Saydanaya.

3. Results

3.1 Marking: TECHNOGREEN PP-R TYPE3 32 x 5,4 ISO 15874-2 SKZ A366 PN20
20BAR 20C LOT32 ISO 9001:2000 21/10/10 Time GERMAN CERTIFICATION
MADE IN SYRIA

3.2 Colour of the pipes: green with four blue longitudinal stripes

3.3 Surface finish and condition as delivered: without objection

3.4 Dimensions

designation		actual value in mm		set value in mm	
		maximum	minimum	maximum	minimum
outside diameter	d ₁	32.3	32.2	32.3	32.0
wall thickness	s ₁	5.7	5.6	6.1	5.4

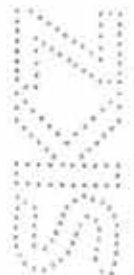
3.5 Heat ageing

designation	unit in	average value	set value
longitudinal reversion	%	0.4	≤ 2.0

3.6 Condition after heat ageing: without objection

3.7 Long-term pressure test

test temperature in °C	test stress in N/mm ²	time to failure in h	
		actual value	set value
95	3.5	> 1000	≥ 1000



3.8 Material properties

designation	unit in	average value	set value
melt mass-flow rate MFR 230/2.16 granulate	g/10 min	0.31 ¹	≤ 0.5
melt mass-flow rate MFR 230/2.16 pipe	g/10 min	0.34	---
change granulate - pipe	%	9.7	≤ 30
homogeneity - microtome section procedure B	degree	2.5; type A2	≤ 3
flexural impact test - breaking rate	%	0	≤ 10
oxygen permeability (optional) ²	mg/(m ² d)	---	---

¹ was determined by the pipe producer

² decided in each individual case by the client

4. Assessment of production plant

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

