Das Kunststoff-Zentrum

SKZ

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

international akkreditiert

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SKZ - TeConA GmbH

i. A.

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Die ungekürzte oder auszugsweise Wiedergabe, Vervielfältigung und Übersetzung dieses Berichtes zu Werbezwecken bedarf der schriftlichen Genehmigung der SKZ - TeConA GmbH. Die Ergebnisse beziehen sich auf die geprüften Produkte. Die Akkreditierungen gelten nur für die in den Urkunden aufgeführten Normen und Verfahren, die im Internet unter www.skz.de eingesehen werden können.

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Deutscher Akkreditierungs Rat
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/mm²	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 permeablity (optional)[2]	mg/(m² 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