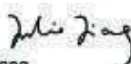
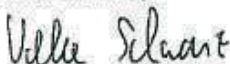


Prüfbericht - Nr.: 2014ZZ057		Seite 1 von 4	
<i>Test Report No.:</i>		<i>Page 1 of 4</i>	
Auftraggeber: <i>Client:</i>	Z&Z INDUSTRY LIMITED Hezuo Industry Area, Hongsan Road, Jiaojiang, Taizhou, Zhejiang, P. R. China		
Prüfgegenstand: <i>Test item:</i>	1 plastic		
Bezeichnung: <i>Identification:</i>	PVC NET		
Anlieferungszustand: <i>Delivery condition:</i>	Einwandfrei, Prüfgegenstand getestet wie angeliefert Apparent good, Samples tested as received	Eingangsdatum: <i>Date of receipt:</i>	Sep. 26 th 2012
Prüfart: <i>Testing location:</i>	TÜV Rheinland (Shenzhen) Co. Ltd. - Industrial Products Testing Center		
Prüfgrundlage: <i>Test specification:</i>	Banned Azo Dyes – according to Directive 2002/61/EC Benzene – according to client's requirement Total Lead Content – according to client's requirement Total Cadmium Content – according to client's requirement Mercury (Hg) – according to client's requirement Arsenic (As) – according to client's requirement Formaldehyde – according to client's requirement		
Prüfresultat: <i>Test result:</i>	Nach Art und Umfang der durchgeführten Prüfungen entspricht der Prüfgegenstand oben genannter Prüfgrundlage. <i>According to the kind and extend of tests performed the test item passed test specification.</i>		
Geprüft: tested by:	Kontrolliert: checked by:		
Sep. 29 th 2007	 Julie Jiang Senior Technical Support Complier	Sep. 29 th 2007	 Volker Schwarz Project Manager
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>
			Name/Stellung <i>Name/Position</i>
			Unterschrift <i>Signature</i>
Sonstiges/ Other Aspects:			
Test Period: Sep. 26 th 2007 – Sep. 28 th 2007			
Beilstein test: positive			
Abkürzungen: ok / P = entspricht Prüfgrundlage fail / F = entspricht nicht Prüfgrundlage n.a. / N = nicht anwendbar		Abbreviations: ok / P = passed fail / F = failed n.a. / N = not applicable	
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfschildes. <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on the test products.</i>			

Our Reference No. 2014ZZ057

1. Banned Azo Dyes

Test method : EN14362-1:2003, EN14362-2:2003 and ISO/TS 17234:2003
 Test result : 30-60 mg/kg quantitative, >60 mg/kg semi quantitative
 Limit : 30 mg/kg – according to Directive 2002/61/EC

Forbidden Amines	CAS No.	Test sample
		Textilene net, orange plastic/textile
Summary (AZO)		negative
4-aminobiphenyl mg/kg	92-67-1	<30
benzidine mg/kg	92-87-5	<30
4-chloro-o-toluidine mg/kg	95-69-2	<30
2-naphthylamine mg/kg	91-59-8	<30
4-chloroaniline mg/kg	106-47-8	<30
4-methoxy-m-phenylenediamine mg/kg	615-05-4	<30
4,4'-diaminodiphenylmethane mg/kg	101-77-9	<30
3,3'-dichlorobenzidine mg/kg	91-94-1	<30
3,3'-dimethoxybenzidine mg/kg	119-90-4	<30
3,3'-dimethylbenzidine mg/kg	119-93-7	<30
4,4'-methylenedi-o-toluidine mg/kg	838-88-0	<30
p-cresidine mg/kg	120-71-8	<30
4,4'-methylene-bis-(2-chloroaniline) mg/kg	101-14-4	<30
4,4'-oxydianiline mg/kg	101-80-4	<30
4,4'-thiodianiline mg/kg	139-65-1	<30
o-toluidine mg/kg	95-53-4	<30
4-methyl-m-phenylenediamine mg/kg	95-80-7	<30
2,4,5-trimethylaniline mg/kg	137-17-7	<30
o-anisidine mg/kg	90-04-0	<30
p-phenylenediamine mg/kg	106-50-3	<30
aniline mg/kg	62-53-3	<30

Further amines: o-aminoazotoluene (CAS No.: 97-56-3) is detected as o-toluidine
 5-nitro-o-toluidine (CAS No.: 99-55-8) is detected as 4-methyl-m-phenylenediamine
 4-amino-azobenzene (CAS No.:60-09-3) is detected as p-phenylenediamine and aniline

negative: According to the analysis carried out, azo dyes banned under Directive 2002/61/EC were not detected.

positive: The analysis results suggest that the article submitted has been manufactured or treated by using azo dyes banned under Directive 2002/61/EC. Finding of 4-aminobiphenyl or 2-naphthylamine cannot be considered as a definite proof that a banned azo dye is contained.

not assessable: Either a composite sample contains amines of banned azo dyes below 30mg/kg. In this case the single materials have to be analyzed separately. Or p-phenylenediamine and aniline were found simultaneously indicating the possible presence of 4-amino-azobenzene which has to be proved by a specific test.





Our Reference No. 2014ZZ057

2. Benzene

Test Method : Extraction with Methanol, Analysis with GC/MS SIM Mode (ISTD: n-Decane)

Limit : 100 mg/kg - according to test specification

Test sample	Textilene net, orange plastic/textile		
Compound	Result (mg/kg)	Limit (mg/kg)	Conclusion
Benzene	< 5	5	PASS

3. Total Lead Content

Test method : The sample was digested in the microwave digester by acid.
Lead content was determined by Inductively Coupled Plasma Spectroscopy.

Limit : 50 mg/kg - according to test specification

Test sample	Textilene net, orange plastic/textile	
Lead (Pb) mg/kg	<10	

4. Total Cadmium Content

Test method : BS EN 1122: 2001, Method B

Limit : 50 mg/kg - according to test specification

Test sample	Textilene net, orange plastic/textile	
Cadmium (Cd) mg/kg	<10	

5. Mercury (Hg)

Test method : The sample was digested in the microwave digester by acid.
Lead content was determined by Inductively Coupled Plasma Spectroscopy.

Limit : 5 mg/kg - according to test specification

Test sample	Textilene net, orange plastic/textile	
Mercury (Hg) mg/kg	<5	



Page 4 of 4

Our Reference No. 2014ZZ057

6. Arsenic (As)

Test method : The sample was digested in the microwave digester by acid.
Lead content was determined by Inductively Coupled Plasma Spectroscopy.

Limit : 5 mg/kg - according to test specification

Test sample		Textilene net, orange plastic/textile
Arsenic (As)	mg/kg	<5

7. Formaldehyde

Test method : ISO14184-1: 1998

Limit : 120 mg/kg - according to test specification

Test sample		Textilene net, orange plastic/textile
Formaldehyde	mg/kg	<20

-- END --

