

## TEST REPORT

**REPORT NUMBER :**

**TURA100055008- REVISED I**

**APPLICANT NAME**

**Sanem Matbaacılık ve Uluslararası Taşımacılık A.Ş.**

**ADDRESS**

Başkent Org.San.Böl. 19 Cade No:85 Malıköy Temelli Ankara TÜRKİYE  
 FAX NO :0312 640 12 32  
**Attention :Abdurrahman Baştaş (abdurrahman@sanem.com.tr)**

**SAMPLE DESCRIPTION :**

- Sample 1** One sample of Floresan plastic wire
- Sample 2** One sample of Orange plastic wire with silver sequins
- Sample 3** One sample of Pearl pink plastic wire
- Sample 4** One sample of Transparent plastic wire
- Sample 5** One sample of Black plastic wire
- Sample 6** One sample of White plastic wire
- Sample 7** One sample of Blue plastic wire

**DATE IN :**

**31 May, 2010 (17:12)**

**DATE OUT :**

**08 June, 2010 / 15 June, 2010**

**NOTE :**

In this revised I report, applicant name was corrected  
 This report replaces the report no TURA100055008 dated on 08 June, 2010 and must be used instead of it.

TEST	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7
ALLERGENIC DISPERSE DYESTUFF	P	P	P	P	P	P	P
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) ANALYSIS	P	P	P	P	P	P	P
AZO DYESTUFF	P	P	P	P	P	P	P
TOTAL PHTHALATE CONTENT	P	P	P	P	P	P	P
TOXIC ELEMENTS ANALYSIS	P	P	P	P	P	P	P
CARCINOGENOUS DYESTUFF	P	P	P	P	P	P	P

P = MEETS BUYER'S REQUIREMENT / F = DOES NOT MEET BUYER'S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED

The test results relate only to the items tested. The whole and/or the part of this test report shall not be reproduced and shall not be shared with third parties, nor to be used for PR activities without the written permission of INTERTEK Test Hizmetleri A.Ş.  
 The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with ISO/IEC 17025 and UKAS accreditation requirements. Unless otherwise is specified, all Pass or Fail results are given without uncertainty considered. When uncertainty is taken into account, the result may be borderline. Borderline results need to be re-tested to determine their disposition up to customer's decision. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. Tests marked (\*) in this test report are not included in the UKAS accreditation schedule for this laboratory.



Zeynep Akın  
 Assistant Chemical Laboratory Manager



Neslihan Sözer  
 Chemical Laboratory Manager



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**\*0055008\***

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Test Method	Result	Requirements
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**Allergenic Disperse Dyestuff**

IHTM AL.2.090&AL.2.178 refer to DIN 54231 By High Performance Liquid Chromatography&Mass Spectroscopy (LC-MS-MS) Analysis :

Sample 1	C.I Generic Name	Result	Requirements
	C.I. Disperse Blue 1:	Not Detected	50 ppm*
	C.I. Disperse Blue 3:	Not Detected	
	C.I. Disperse Blue 7:	Not Detected	
	C.I. Disperse Blue 26:	Not Detected	
	C.I. Disperse Blue 35:	Not Detected	
	C.I. Disperse Blue 102:	Not Detected	
	C.I. Disperse Blue 106:	Not Detected	
	C.I. Disperse Blue 124:	Not Detected	
	C.I. Disperse Brown 1:	Not Detected	
	C.I. Disperse Orange 1:	Not Detected	
	C.I. Disperse Orange 3:	Not Detected	
	C.I. Disperse Orange 37/76:	Not Detected	
	C.I. Disperse Orange 149:	Not Detected	
	C.I. Disperse Red 1:	Not Detected	
	C.I. Disperse Red 11:	Not Detected	
	C.I. Disperse Red 17:	Not Detected	
	C.I. Disperse Yellow 1:	Not Detected	
	C.I. Disperse Yellow 3:	Not Detected	
	C.I. Disperse Yellow 9:	Not Detected	
	C.I. Disperse Yellow 23:	Not Detected	
	C.I. Disperse Yellow 39:	Not Detected	
	C.I. Disperse Yellow 49:	Not Detected	

ppm:part per million (mg/kg)  
 Detection Limit:3 ppm

< = Less Than  
 ND =Not Detected

\*Eco Testing Standard for Textiles

(Total uncertainty=± 9 %)



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Test Method	Result	Requirements
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**Allergenic Disperse Dyestuff**

IHTM AL.2.090&AL.2.178 refer to DIN 54231 By High Performance Liquid Chromatography&Mass Spectroscopy (LC-MS-MS) Analysis :

Sample 2	C.I Generic Name	Result	Requirements
	C.I. Disperse Blue 1:	Not Detected	50 ppm*
	C.I. Disperse Blue 3:	Not Detected	
	C.I. Disperse Blue 7:	Not Detected	
	C.I. Disperse Blue 26:	Not Detected	
	C.I. Disperse Blue 35:	Not Detected	
	C.I. Disperse Blue 102:	Not Detected	
	C.I. Disperse Blue 106:	Not Detected	
	C.I. Disperse Blue 124:	Not Detected	
	C.I. Disperse Brown 1:	Not Detected	
	C.I. Disperse Orange 1:	Not Detected	
	C.I. Disperse Orange 3:	Not Detected	
	C.I. Disperse Orange 37/76:	Not Detected	
	C.I. Disperse Orange 149:	Not Detected	
	C.I. Disperse Red 1:	Not Detected	
	C.I. Disperse Red 11:	Not Detected	
	C.I. Disperse Red 17:	Not Detected	
	C.I. Disperse Yellow 1:	Not Detected	
	C.I. Disperse Yellow 3:	Not Detected	
	C.I. Disperse Yellow 9:	Not Detected	
	C.I. Disperse Yellow 23:	Not Detected	
	C.I. Disperse Yellow 39:	Not Detected	
	C.I. Disperse Yellow 49:	Not Detected	

ppm:part per million (mg/kg)

Detection Limit:3 ppm

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(Total uncertainty=± 9%)



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Test Method	Result	Requirements
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**Allergenic Disperse Dyestuff**

IHTM AL.2.090&AL.2.178 refer to DIN 54231 By High Performance Liquid Chromatography&Mass Spectroscopy (LC-MS-MS) Analysis :

Sample 3	C.I Generic Name	Result	Requirements
	C.I. Disperse Blue 1:	Not Detected	50 ppm*
	C.I. Disperse Blue 3:	Not Detected	
	C.I. Disperse Blue 7:	Not Detected	
	C.I. Disperse Blue 26:	Not Detected	
	C.I. Disperse Blue 35:	Not Detected	
	C.I. Disperse Blue 102:	Not Detected	
	C.I. Disperse Blue 106:	Not Detected	
	C.I. Disperse Blue 124:	Not Detected	
	C.I. Disperse Brown 1:	Not Detected	
	C.I. Disperse Orange 1:	Not Detected	
	C.I. Disperse Orange 3:	Not Detected	
	C.I. Disperse Orange 37/76:	Not Detected	
	C.I. Disperse Orange 149:	Not Detected	
	C.I. Disperse Red 1:	Not Detected	
	C.I. Disperse Red 11:	Not Detected	
	C.I. Disperse Red 17:	Not Detected	
	C.I. Disperse Yellow 1:	Not Detected	
	C.I. Disperse Yellow 3:	Not Detected	
	C.I. Disperse Yellow 9:	Not Detected	
	C.I. Disperse Yellow 23:	Not Detected	
	C.I. Disperse Yellow 39:	Not Detected	
	C.I. Disperse Yellow 49:	Not Detected	

ppm:part per million (mg/kg)

Detection Limit:3 ppm

< = Less Than

ND =Not Detected

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(Total uncertainty=± 9%)



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Test Method	Result	Requirements
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**Allergenic Disperse Dyestuff**

IHTM AL.2.090&AL.2.178 refer to DIN 54231 By High Performance Liquid Chromatography&Mass Spectroscopy (LC-MS-MS) Analysis :

Sample 4	C.I Generic Name	Result	Requirements
	C.I. Disperse Blue 1:	Not Detected	50 ppm*
	C.I. Disperse Blue 3:	Not Detected	
	C.I. Disperse Blue 7:	Not Detected	
	C.I. Disperse Blue 26:	Not Detected	
	C.I. Disperse Blue 35:	Not Detected	
	C.I. Disperse Blue 102:	Not Detected	
	C.I. Disperse Blue 106:	Not Detected	
	C.I. Disperse Blue 124:	Not Detected	
	C.I. Disperse Brown 1:	Not Detected	
	C.I. Disperse Orange 1:	Not Detected	
	C.I. Disperse Orange 3:	Not Detected	
	C.I. Disperse Orange 37/76:	Not Detected	
	C.I. Disperse Orange 149:	Not Detected	
	C.I. Disperse Red 1:	Not Detected	
	C.I. Disperse Red 11:	Not Detected	
	C.I. Disperse Red 17:	Not Detected	
	C.I. Disperse Yellow 1:	Not Detected	
	C.I. Disperse Yellow 3:	Not Detected	
	C.I. Disperse Yellow 9:	Not Detected	
	C.I. Disperse Yellow 23:	Not Detected	
	C.I. Disperse Yellow 39:	Not Detected	
	C.I. Disperse Yellow 49:	Not Detected	

ppm:part per million (mg/kg)

Detection Limit:3 ppm

< = Less Than

ND =Not Detected

\*Eco Testing Standard for Textiles

(Total uncertainty=± 9%)



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Test Method	Result	Requirements
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**Allergenic Disperse Dyestuff**

IHTM AL.2.090&AL.2.178 refer to DIN 54231 By High Performance Liquid Chromatography&Mass Spectroscopy (LC-MS-MS) Analysis :

Sample 5	C.I Generic Name	Result	Requirements
	C.I. Disperse Blue 1:	Not Detected	50 ppm*
	C.I. Disperse Blue 3:	Not Detected	
	C.I. Disperse Blue 7:	Not Detected	
	C.I. Disperse Blue 26:	Not Detected	
	C.I. Disperse Blue 35:	Not Detected	
	C.I. Disperse Blue 102:	Not Detected	
	C.I. Disperse Blue 106:	Not Detected	
	C.I. Disperse Blue 124:	Not Detected	
	C.I. Disperse Brown 1:	Not Detected	
	C.I. Disperse Orange 1:	Not Detected	
	C.I. Disperse Orange 3:	Not Detected	
	C.I. Disperse Orange 37/76:	Not Detected	
	C.I. Disperse Orange 149:	Not Detected	
	C.I. Disperse Red 1:	Not Detected	
	C.I. Disperse Red 11:	Not Detected	
	C.I. Disperse Red 17:	Not Detected	
	C.I. Disperse Yellow 1:	Not Detected	
	C.I. Disperse Yellow 3:	Not Detected	
	C.I. Disperse Yellow 9:	Not Detected	
	C.I. Disperse Yellow 23:	Not Detected	
	C.I. Disperse Yellow 39:	Not Detected	
	C.I. Disperse Yellow 49:	Not Detected	

ppm:part per million (mg/kg)

Detection Limit:3 ppm

< = Less Than

ND =Not Detected

\*Eco Testing Standard for Textiles

(Total uncertainty=± 9%)



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Test Method	Result	Requirements
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**Allergenic Disperse Dyestuff**

IHTM AL.2.090&AL.2.178 refer to DIN 54231 By High Performance Liquid Chromatography&Mass Spectroscopy (LC-MS-MS) Analysis :

Sample 6	C.I Generic Name	Result	Requirements
	C.I. Disperse Blue 1:	Not Detected	50 ppm*
	C.I. Disperse Blue 3:	Not Detected	
	C.I. Disperse Blue 7:	Not Detected	
	C.I. Disperse Blue 26:	Not Detected	
	C.I. Disperse Blue 35:	Not Detected	
	C.I. Disperse Blue 102:	Not Detected	
	C.I. Disperse Blue 106:	Not Detected	
	C.I. Disperse Blue 124:	Not Detected	
	C.I. Disperse Brown 1:	Not Detected	
	C.I. Disperse Orange 1:	Not Detected	
	C.I. Disperse Orange 3:	Not Detected	
	C.I. Disperse Orange 37/76:	Not Detected	
	C.I. Disperse Orange 149:	Not Detected	
	C.I. Disperse Red 1:	Not Detected	
	C.I. Disperse Red 11:	Not Detected	
	C.I. Disperse Red 17:	Not Detected	
	C.I. Disperse Yellow 1:	Not Detected	
	C.I. Disperse Yellow 3:	Not Detected	
	C.I. Disperse Yellow 9:	Not Detected	
	C.I. Disperse Yellow 23:	Not Detected	
	C.I. Disperse Yellow 39:	Not Detected	
	C.I. Disperse Yellow 49:	Not Detected	

ppm:part per million (mg/kg)

Detection Limit:3 ppm

< = Less Than

ND =Not Detected

\*Eco Testing Standard for Textiles

(Total uncertainty=± 9%)



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Test Method	Result	Requirements
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**Allergenic Disperse Dyestuff**

IHTM AL.2.090&AL.2.178 refer to DIN 54231 By High Performance Liquid Chromatography&Mass Spectroscopy (LC-MS-MS) Analysis :

Sample 7	C.I Generic Name	Result	Requirements
	C.I. Disperse Blue 1:	Not Detected	50 ppm*
	C.I. Disperse Blue 3:	Not Detected	
	C.I. Disperse Blue 7:	Not Detected	
	C.I. Disperse Blue 26:	Not Detected	
	C.I. Disperse Blue 35:	Not Detected	
	C.I. Disperse Blue 102:	Not Detected	
	C.I. Disperse Blue 106:	Not Detected	
	C.I. Disperse Blue 124:	Not Detected	
	C.I. Disperse Brown 1:	Not Detected	
	C.I. Disperse Orange 1:	Not Detected	
	C.I. Disperse Orange 3:	Not Detected	
	C.I. Disperse Orange 37/76:	Not Detected	
	C.I. Disperse Orange 149:	Not Detected	
	C.I. Disperse Red 1:	Not Detected	
	C.I. Disperse Red 11:	Not Detected	
	C.I. Disperse Red 17:	Not Detected	
	C.I. Disperse Yellow 1:	Not Detected	
	C.I. Disperse Yellow 3:	Not Detected	
	C.I. Disperse Yellow 9:	Not Detected	
	C.I. Disperse Yellow 23:	Not Detected	
	C.I. Disperse Yellow 39:	Not Detected	
	C.I. Disperse Yellow 49:	Not Detected	

ppm:part per million (mg/kg)

Detection Limit:3 ppm

< = Less Than

ND =Not Detected

\*Eco Testing Standard for Textiles

(Total uncertainty=± 9%)



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Test Method	Result	Requirements
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**Polycyclic Aromatic Hydrocarbons (PAHs) Analysis**

IHTM AL.2.032 ZEK 01.2-08 :

Harmonisierte Methode zur Bestimmung von polycyclischen aromatischen Kohlenwasserstoffen (PAK) in Kunststoffproben ZEK 01-08 AS SOLVENT EXTRACTION AND FOLLOWED BY GAS CHROMATOGRAPHY MASS SPECTROMETRIC (GC/MS) ANALYSIS

Sample 1	RESULT (ppm)	
NAPHTHALENE	Not Detected	Category 3
ACENAPHTHYLENE	Not Detected	Total 16 PAH : 200 mg/kg
ACENAPHTHEN	Not Detected	Benzo(a)pyrene : 20 mg/kg
FLUORENE	Not Detected	
PHENANTHRENE	Not Detected	
ANTHRACENE	Not Detected	Category 2
FLUORANTHENE	Not Detected	Total 16 PAH : 10 mg/kg
PYRENE	Not Detected	Benzo(a)pyrene : 1 mg/kg
BENZO (a) ANTHRACENE	Not Detected	
CHRYSENE	Not Detected	
BENZO (b) FLUORANTHENE	Not Detected	
BENZO (k) FLUORANTHENE	Not Detected	
BENZO (a) PYRENE	Not Detected	
INDENO (1,2,3-cd) PYRENE	Not Detected	
DIBENZO (a,h) ANTHRACENE	Not Detected	
BENZO (ghi) PERYLENE	Not Detected	
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SUM (16 PAH):	Not Detected	
ppm (part per million) =mg / kg		
Detection Limit = 0,1 ppm		
n.d. = Not Detected		

(Total uncertainty=±3% )



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Test Method	Result	Requirements
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**Polycyclic Aromatic Hydrocarbons (PAHs) Analysis**

IHTM AL.2.032 ZEK 01.2-08 :

Harmonisierte Methode zur Bestimmung von polycyclischen aromatischen Kohlenwasserstoffen (PAK) in Kunststoffproben ZEK 01-08 AS SOLVENT EXTRACTION AND FOLLOWED BY GAS CHROMATOGRAPHY MASS SPECTROMETRIC (GC/MS) ANALYSIS

Sample 2		
NAPHTHALENE	Not Detected	Category 3
ACENAPHTHYLENE	Not Detected	Total 16 PAH : 200 mg/kg
ACENAPHTHEN	Not Detected	Benzo(a)pyrene : 20 mg/kg
FLUORENE	Not Detected	
PHENANTHRENE	Not Detected	
ANTHRACENE	Not Detected	Category 2
FLUORANTHENE	Not Detected	Total 16 PAH : 10 mg/kg
PYRENE	Not Detected	Benzo(a)pyrene : 1 mg/kg
BENZO (a) ANTHRACENE	Not Detected	
CHRYSENE	Not Detected	
BENZO (b) FLUORANTHENE	Not Detected	
BENZO (k) FLUORANTHENE	Not Detected	
BENZO (a) PYRENE	Not Detected	
INDENO (1,2,3-cd) PYRENE	Not Detected	
DIBENZO (a,h) ANTHRACENE	Not Detected	
BENZO (ghi) PERYLENE	Not Detected	
----		
SUM (16 PAH):	Not Detected	
ppm (part per million) =mg / kg		
Detection Limit = 0.1 ppm		
n.d. = Not Detected		

(Total uncertainty=±3%)



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Test Method	Result	Requirements
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**Polycyclic Aromatic Hydrocarbons (PAHs) Analysis**

IHTM AL.2.032 ZEK 01.2-08 :

Harmonisierte Methode zur Bestimmung von polycyclischen aromatischen Kohlenwasserstoffen (PAK) in Kunststoffproben ZEK 01-08 AS SOLVENT EXTRACTION AND FOLLOWED BY GAS CHROMATOGRAPHY MASS SPECTROMETRIC (GC/MS) ANALYSIS

Sample 3		
NAPHTHALENE	Not Detected	Category 3
ACENAPHTHYLENE	Not Detected	Total 16 PAH : 200 mg/kg
ACENAPHTHEN	Not Detected	Benzo(a)pyrene : 20 mg/kg
FLUORENE	Not Detected	
PHENANTHRENE	Not Detected	
ANTHRACENE	Not Detected	Category 2
FLUORANTHENE	Not Detected	Total 16 PAH : 10 mg/kg
PYRENE	Not Detected	Benzo(a)pyrene : 1 mg/kg
BENZO (a) ANTHRACENE	Not Detected	
CHRYSENE	Not Detected	
BENZO (b) FLUORANTHENE	Not Detected	
BENZO (k) FLUORANTHENE	Not Detected	
BENZO (a) PYRENE	Not Detected	
INDENO (1,2,3-cd) PYRENE	Not Detected	
DIBENZO (a,h) ANTHRACENE	Not Detected	
BENZO (ghi) PERYLENE	Not Detected	
----		
SUM (16 PAH):	Not Detected	
ppm (part per million) =mg / kg		
Detection Limit = 0.1 ppm		
n.d. = Not Detected		

(Total uncertainty=±3%)



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**Polycyclic Aromatic Hydrocarbons (PAHs) Analysis**

IHTM AL.2.032 ZEK 01.2-08 :

Harmonisierte Methode zur Bestimmung von polycyclischen aromatischen Kohlenwasserstoffen (PAK) in Kunststoffproben ZEK 01-08 AS SOLVENT EXTRACTION AND FOLLOWED BY GAS CHROMATOGRAPHY MASS SPECTROMETRIC (GC/MS) ANALYSIS

Sample 4		
NAPHTHALENE	Not Detected	Category 3
ACENAPHTHYLENE	Not Detected	Total 16 PAH : 200 mg/kg
ACENAPHTHEN	Not Detected	Benzo(a)pyrene : 20 mg/kg
FLUORENE	Not Detected	
PHENANTHRENE	Not Detected	
ANTHRACENE	Not Detected	Category 2
FLUORANTHENE	Not Detected	Total 16 PAH : 10 mg/kg
PYRENE	Not Detected	Benzo(a)pyrene : 1 mg/kg
BENZO (a) ANTHRACENE	Not Detected	
CHRYSENE	Not Detected	
BENZO (b) FLUORANTHENE	Not Detected	
BENZO (k) FLUORANTHENE	Not Detected	
BENZO (a) PYRENE	Not Detected	
INDENO (1,2,3-cd) PYRENE	Not Detected	
DIBENZO (a,h) ANTHRACENE	Not Detected	
BENZO (ghi) PERYLENE	Not Detected	
----		
SUM (16 PAH):	Not Detected	
ppm (part per million) =mg / kg		
Detection Limit = 0.1 ppm		
n.d. = Not Detected		

(Total uncertainty=±3%)



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**Polycyclic Aromatic Hydrocarbons (PAHs) Analysis**

IHTM AL.2.032 ZEK 01.2-08 :

Harmonisierte Methode zur Bestimmung von polycyclischen aromatischen Kohlenwasserstoffen (PAK) in Kunststoffproben ZEK 01-08 AS SOLVENT EXTRACTION AND FOLLOWED BY GAS CHROMATOGRAPHY MASS SPECTROMETRIC (GC/MS) ANALYSIS

Sample 5		
NAPHTHALENE	Not Detected	Category 3
ACENAPHTHYLENE	Not Detected	Total 16 PAH : 200 mg/kg
ACENAPHTHEN	Not Detected	Benzo(a)pyrene : 20 mg/kg
FLUORENE	Not Detected	
PHENANTHRENE	Not Detected	
ANTHRACENE	Not Detected	Category 2
FLUORANTHENE	Not Detected	Total 16 PAH : 10 mg/kg
PYRENE	Not Detected	Benzo(a)pyrene : 1 mg/kg
BENZO (a) ANTHRACENE	Not Detected	
CHRYSENE	Not Detected	
BENZO (b) FLUORANTHENE	Not Detected	
BENZO (k) FLUORANTHENE	Not Detected	
BENZO (a) PYRENE	Not Detected	
INDENO (1,2,3-cd) PYRENE	Not Detected	
DIBENZO (a,h) ANTHRACENE	Not Detected	
BENZO (ghi) PERYLENE	Not Detected	
----		
SUM (16 PAH):	Not Detected	
ppm (part per million) =mg / kg		
Detection Limit = 0.1 ppm		
n.d. = Not Detected		

(Total uncertainty=±3%)



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Test Method	Result	Requirements
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**Polycyclic Aromatic Hydrocarbons (PAHs) Analysis**

IHTM AL.2.032 ZEK 01.2-08 :

Harmonisierte Methode zur Bestimmung von polycyclischen aromatischen Kohlenwasserstoffen (PAK) in Kunststoffproben ZEK 01-08 AS SOLVENT EXTRACTION AND FOLLOWED BY GAS CHROMATOGRAPHY MASS SPECTROMETRIC (GC/MS) ANALYSIS

Sample 6		
NAPHTHALENE	Not Detected	Category 3
ACENAPHTHYLENE	Not Detected	Total 16 PAH : 200 mg/kg
ACENAPHTHEN	Not Detected	Benzo(a)pyrene : 20 mg/kg
FLUORENE	Not Detected	
PHENANTHRENE	Not Detected	
ANTHRACENE	Not Detected	Category 2
FLUORANTHENE	Not Detected	Total 16 PAH : 10 mg/kg
PYRENE	Not Detected	Benzo(a)pyrene : 1 mg/kg
BENZO (a) ANTHRACENE	Not Detected	
CHRYSENE	Not Detected	
BENZO (b) FLUORANTHENE	Not Detected	
BENZO (k) FLUORANTHENE	Not Detected	
BENZO (a) PYRENE	Not Detected	
INDENO (1,2,3-cd) PYRENE	Not Detected	
DIBENZO (a,h) ANTHRACENE	Not Detected	
BENZO (ghi) PERYLENE	Not Detected	
----		
SUM (16 PAH):	Not Detected	
ppm (part per million) =mg / kg		
Detection Limit = 0.1 ppm		
n.d. = Not Detected		

(Total uncertainty=±3%)



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Harmonisierte Methode zur Bestimmung von polycyclischen aromatischen Kohlenwasserstoffen (PAK) in Kunststoffproben ZEK 01-08 AS SOLVENT EXTRACTION AND FOLLOWED BY GAS CHROMATOGRAPHY MASS SPECTROMETRIC (GC/MS) ANALYSIS

Sample 7		
NAPHTHALENE	Not Detected	Category 3
ACENAPHTHYLENE	Not Detected	Total 16 PAH : 200 mg/kg
ACENAPHTHEN	Not Detected	Benzo(a)pyrene : 20 mg/kg
FLUORENE	Not Detected	
PHENANTHRENE	Not Detected	
ANTHRACENE	Not Detected	Category 2
FLUORANTHENE	Not Detected	Total 16 PAH : 10 mg/kg
PYRENE	Not Detected	Benzo(a)pyrene : 1 mg/kg
BENZO (a) ANTHRACENE	Not Detected	
CHRYSENE	Not Detected	
BENZO (b) FLUORANTHENE	Not Detected	
BENZO (k) FLUORANTHENE	Not Detected	
BENZO (a) PYRENE	Not Detected	
INDENO (1,2,3-cd) PYRENE	Not Detected	
DIBENZO (a,h) ANTHRACENE	Not Detected	
BENZO (ghi) PERYLENE	Not Detected	
----		
SUM (16 PAH):	Not Detected	
ppm (part per million) =mg / kg		
Detection Limit = 0.1 ppm		
n.d. = Not Detected		

(Total uncertainty=±3%)



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Test Method	Result	Requirements
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**TOTAL PHTHALATE CONTENT**

EN14372 :2004 Method By Gas Chromatographic- Mass Spectrometric (GC- MS ) Analysis : 2004

Sample 1	RESULT (%. w/w)
DIBUTYL PHTHALATE (DBP)	<10 ppm
DIETHYL HEXYL PHTHALATE (DEHP)	<10 ppm
BENZYL BUTYL PHTHALATE (BBP)	<10 ppm
SUM OF THREE PHTHALATES	<10 ppm
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
	RESULT (%. w/w)
DI-ISO-NONYL PHTHALATE (DINP)	<10 ppm
DI-N-OCTYL PHTHALATE (DNOP)	<10 ppm
DI-ISO-DECYL PHTHALATE (DIDP)	<10 ppm
SUM OF THREE PHTHALATES	<10 ppm
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

REMARK =The Above Limit Was Quoted According To Annex XVII Items 51&52 of the REACH Regulation (EC) No.1907/2006 (Formerly known as Directive 2005/84/EC) for Phthalate Content .

ppm (part per million) =mg / kg  
 Detection Limit =10 ppm  
 < =Less Than  
 \* =EXCEEDED LIMIT

COMMENT =The Phthalate Content Test Result DID NOT EXCEED The Limit Of 0.1% By Weight As Stated In European Commission Directive 2005/84/EC On 14 December 2005 Relating To Restrictions On Phthalates In Toys And Children Articles.

(Total uncertainty=± 5 %)



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Test Method	Result	Requirements
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**TOTAL PHTHALATE CONTENT**

EN14372 :2004 Method By Gas Chromotographic- Mass Spectrometric (GC- MS ) Analysis : 2004

Sample 2	RESULT (%. w/w)
DIBUTYL PHTHALATE (DBP)	<10 ppm
DIETHYL HEXYL PHTHALATE (DEHP)	<10 ppm
BENZYL BUTYL PHTHALATE (BBP)	<10 ppm
SUM OF THREE PHTHALATES	<10 ppm
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
	<b>RESULT (%. w/w)</b>
DI-ISO-NONYL PHTHALATE (DINP)	<10 ppm
DI-N-OCTYL PHTHALATE (DNOP)	<10 ppm
DI-ISO-DECYL PHTHALATE (DIDP)	<10 ppm
SUM OF THREE PHTHALATES	<10 ppm
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

**REMARK** =The Above Limit Was Quoted According To Annex XVII Items 51&52 of the REACH Regulation (EC) No.1907/2006 (Formerly known as Directive 2005/84/EC) for Phthalate Content .

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 Detection Limit =10 ppm  
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 \* =EXCEEDED LIMIT

**COMMENT** =The Phthalate Content Test Result DID NOT EXCEED The Limit Of 0.1% By Weight As Stated In European Commission Directive 2005/84/EC On 14 December 2005 Relating To Restrictions On Phthalates In Toys And Children Articles.

(Total uncertainty=± 5 %)



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Test Method	Result	Requirements
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**TOTAL PHTHALATE CONTENT**

EN14372 :2004 Method By Gas Chromotographic- Mass Spectrometric (GC- MS ) Analysis : 2004

Sample 3	RESULT (%. w/w)
DIBUTYL PHTHALATE (DBP)	<10 ppm
DIETHYL HEXYL PHTHALATE (DEHP)	<10 ppm
BENZYL BUTYL PHTHALATE (BBP)	<10 ppm
SUM OF THREE PHTHALATES	<10 ppm
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
	RESULT (%. w/w)
DI-ISO-NONYL PHTHALATE (DINP)	<10 ppm
DI-N-OCTYL PHTHALATE (DNOP)	<10 ppm
DI-ISO-DECYL PHTHALATE (DIDP)	<10 ppm
SUM OF THREE PHTHALATES	<10 ppm
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

REMARK =The Above Limit Was Quoted According To Annex XVII Items 51&52 of the REACH Regulation (EC) No.1907/2006 (Formerly known as Directive 2005/84/EC) for Phthalate Content .

ppm (part per million) =mg / kg  
 Detection Limit =10 ppm  
 < =Less Than  
 \* =EXCEEDED LIMIT

COMMENT =The Phthalate Content Test Result DID NOT EXCEED The Limit Of 0.1% By Weight As Stated In European Commission Directive 2005/84/EC On 14 December 2005 Relating To Restrictions On Phthalates In Toys And Children Articles.

(Total uncertainty=± 5 %)



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Test Method	Result	Requirements
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**TOTAL PHTHALATE CONTENT**

EN14372 :2004 Method By Gas Chromatographic- Mass Spectrometric (GC- MS ) Analysis : 2004

Sample 4	RESULT (%. w/w)
DIBUTYL PHTHALATE (DBP)	<10 ppm
DIETHYL HEXYL PHTHALATE (DEHP)	<10 ppm
BENZYL BUTYL PHTHALATE (BBP)	<10 ppm
SUM OF THREE PHTHALATES	<10 ppm
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
	RESULT (%. w/w)
DI-ISO-NONYL PHTHALATE (DINP)	<10 ppm
DI-N-OCTYL PHTHALATE (DNOP)	<10 ppm
DI-ISO-DECYL PHTHALATE (DIDP)	<10 ppm
SUM OF THREE PHTHALATES	<10 ppm
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

REMARK =The Above Limit Was Quoted According To Annex XVII Items 51&52 of the REACH Regulation (EC) No.1907/2006 (Formerly known as Directive 2005/84/EC) for Phthalate Content .

ppm (part per million) =mg / kg  
 Detection Limit =10 ppm  
 < =Less Than  
 \* =EXCEEDED LIMIT

COMMENT =The Phthalate Content Test Result DID NOT EXCEED The Limit Of 0.1% By Weight As Stated In European Commission Directive 2005/84/EC On 14 December 2005 Relating To Restrictions On Phthalates In Toys And Children Articles.

(Total uncertainty=± 5 %)



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Test Method	Result	Requirements
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**TOTAL PHTHALATE CONTENT**

EN14372 :2004 Method By Gas Chromotographic- Mass Spectrometric (GC- MS ) Analysis : 2004

Sample 5	RESULT (%. w/w)
DIBUTYL PHTHALATE (DBP)	<10 ppm
DIETHYL HEXYL PHTHALATE (DEHP)	<10 ppm
BENZYL BUTYL PHTHALATE (BBP)	<10 ppm
SUM OF THREE PHTHALATES	<10 ppm
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
	RESULT (%. w/w)
DI-ISO-NONYL PHTHALATE (DINP)	<10 ppm
DI-N-OCTYL PHTHALATE (DNOP)	<10 ppm
DI-ISO-DECYL PHTHALATE (DIDP)	<10 ppm
SUM OF THREE PHTHALATES	<10 ppm
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

REMARK =The Above Limit Was Quoted According To Annex XVII Items 51&52 of the REACH Regulation (EC) No.1907/2006 (Formerly known as Directive 2005/84/EC) for Phthalate Content .

ppm (part per million) =mg / kg  
 Detection Limit =10 ppm  
 < =Less Than  
 \* =EXCEEDED LIMIT

COMMENT =The Phthalate Content Test Result DID NOT EXCEED The Limit Of 0.1% By Weight As Stated In European Commission Directive 2005/84/EC On 14 December 2005 Relating To Restrictions On Phthalates In Toys And Children Articles.

(Total uncertainty=± 5 %)



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Test Method	Result	Requirements
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**TOTAL PHTHALATE CONTENT**

EN14372 :2004 Method By Gas Chromotographic- Mass Spectrometric (GC- MS ) Analysis : 2004

Sample 6	RESULT (%. w/w)
DIBUTYL PHTHALATE (DBP)	<10 ppm
DIETHYL HEXYL PHTHALATE (DEHP)	<10 ppm
BENZYL BUTYL PHTHALATE (BBP)	<10 ppm
SUM OF THREE PHTHALATES	<10 ppm
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
	<b>RESULT (%. w/w)</b>
DI-ISO-NONYL PHTHALATE (DINP)	<10 ppm
DI-N-OCTYL PHTHALATE (DNOP)	<10 ppm
DI-ISO-DECYL PHTHALATE (DIDP)	<10 ppm
SUM OF THREE PHTHALATES	<10 ppm
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

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ppm (part per million) =mg / kg  
 Detection Limit =10 ppm  
 < =Less Than  
 \* =EXCEEDED LIMIT

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(Total uncertainty=± 5 %)



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Test Method	Result	Requirements
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**TOTAL PHTHALATE CONTENT**

EN14372 :2004 Method By Gas Chromatographic- Mass Spectrometric (GC- MS ) Analysis : 2004

Sample 7	RESULT (%. w/w)
DIBUTYL PHTHALATE (DBP)	<10 ppm
DIETHYL HEXYL PHTHALATE (DEHP)	<10 ppm
BENZYL BUTYL PHTHALATE (BBP)	<10 ppm
SUM OF THREE PHTHALATES	<10 ppm
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
	<b>RESULT (%. w/w)</b>
DI-ISO-NONYL PHTHALATE (DINP)	<10 ppm
DI-N-OCTYL PHTHALATE (DNOP)	<10 ppm
DI-ISO-DECYL PHTHALATE (DIDP)	<10 ppm
SUM OF THREE PHTHALATES	<10 ppm
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

REMARK =The Above Limit Was Quoted According To Annex XVII Items 51&52 of the REACH Regulation (EC) No.1907/2006 (Formerly known as Directive 2005/84/EC) for Phthalate Content .

ppm (part per million) =mg / kg  
 Detection Limit =10 ppm  
 < =Less Than  
 \* =EXCEEDED LIMIT

COMMENT =The Phthalate Content Test Result DID NOT EXCEED The Limit Of 0.1% By Weight As Stated In European Commission Directive 2005/84/EC On 14 December 2005 Relating To Restrictions On Phthalates In Toys And Children Articles.

(Total uncertainty=± 5 %)



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Test Method	Result	Requirements
<b>Azo Dyestuff</b> EN 14362 -1 : 2003 Determination of Certain aromatic Amines derived from azo colorants followed by GC- MS Analysis <b>Sample 1&amp;2&amp;3&amp;4&amp;5&amp;6&amp;7</b>		
1)Transparent plastic (Textile)		<b>PASS</b> <30 ppm
2)Composite sample of Florans, orange, pink plastic (Textile)		<b>PASS</b> <30 ppm
3)Composite sample of Black, white, blue plastic (Textile)		<b>PASS</b> <30 ppm

**INTERPRETATION OF AZO-DYES TEST RESULTS:**

**FORBIDDEN AMINE**

**CAS NO**

4-AMINOBIHENYL	92-67-1
BENZIDINE	92-87-5
CHLORO-O-4-CHLOR-O-TOLUIDINE	95-69-2
2-NAPHTHYLAMINE	91-59-8
*O-AMINOAZOTOLUENE	97-56-3
*2-AMINO-4-NITROTOLUENE	99-55-8
P-CHLOROANILINE	106-47-8
2,4-DIAMINOANISOLE	615-05-4
4,4'-DIAMINOBIHENYLMETHANE	101-77-9
3,3'-DICHLOBENZIDINE	91-94-1
3,3'-DIMETHOXYBENZIDINE	119-90-4
3,3'-DIMETHYLBENZIDINE	119-93-7
3,3'-DIMETHYL-4,4' DIAMINOBIHENYLMETHANE	838-88-0
P-CRESIDINE	120-74-8
4,4'-METHYLENE-BIS-(2 CHLOROANILINE)	101-14-4
4,4'-OXYDIANILINE	101-80-4
4,4'-THIODIANILINE	139-65-1
O-TOLUIDINE	95-53-4
2,4-TOLUYLENDIAMINE	95-80-7
2,4,5-TRIMETHYLANILINE	137-17-7
O-ANISIDINE	90-04-0
**P-AMINOAZOBENZENE	60-09-3
2,4 XYLIDINE	95-68-1
2,6 XYLIDINE	87-62-7

**NOTE:** \*The amines o-amino-azotoluene and 2-amino-4-nitrotoluene are detected by its splitted product o-toluidine and 2,4- toluylenediamine.  
\*\*Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4- phenylenediamine . The presence of these colorants can not be reliably ascertained without additional information, e.g. chemical structure of the colorant used.

**Remark:**

- 1)ACCORDING TO THE OFFICIAL METHOD EN ISO/TS 17234:2003, IF 4-AMINODIPHENYL OR 2-NAPHTHYLAMINE OR 2,4-DIAMINOANISOLE IS FOUND EXCEEDING 30 PPM, THE USE OF FORBIDDEN AZO DYESTUFF CANNOT BE ASCERTAINED WITHOUT ADDITIONAL INFORMATION eg. THE CHEMICAL STRUCTURE OF THE DYESTUFF USED.  
TEXTILE OR POLYESTER METHOD CASES ONLY.
- 2)AZO COLORANTS CONTENT REQUIREMENT IN ANNEX XVII ITEM 43 OF THE REACH REGULATION (EC)NO:1907/2006 FORMERLY KNOWN AS DIRECTIVE 2002/61/EC)

**ppm : part per million (mg/kg)**

**Detection Limit: 5 ppm**

**< = Less Than**

(Total uncertainty=±10 %)



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Test Method	Result	Requirements
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**Toxic Elements Analysis**

BS EN 71-3 : 1995

Acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma-

ICP\_OES.

Sample	Element (Symbol)	RESULT IN ppm	PASS/FAIL	Requirement (ppm)
Sample 1	Antimony (Sb)	<2 ppm	PASS	60
	Arsenic (As)	<2 ppm	PASS	25
	Barium (Ba)	<2 ppm	PASS	1000
	Cadmium (Cd)	<2 ppm	PASS	75
	Chromium (Cr)	<5 ppm	PASS	60
	Lead (Pb)	<5 ppm	PASS	90
	Mercury (Hg)	<2 ppm	PASS	60
Sample 2	Selenium (Se)	<2 ppm	PASS	500
	Antimony (Sb)	<2 ppm	PASS	60
	Arsenic (As)	<2 ppm	PASS	25
	Barium (Ba)	<2 ppm	PASS	1000
	Cadmium (Cd)	<2 ppm	PASS	75
	Chromium (Cr)	<5 ppm	PASS	60
	Lead (Pb)	<5 ppm	PASS	90
Sample 3	Mercury (Hg)	<2 ppm	PASS	60
	Selenium (Se)	<2 ppm	PASS	500
	Antimony (Sb)	<2 ppm	PASS	60
	Arsenic (As)	<2 ppm	PASS	25
	Barium (Ba)	<2 ppm	PASS	1000
	Cadmium (Cd)	<2 ppm	PASS	75
	Chromium (Cr)	<5 ppm	PASS	60
Sample 4	Lead (Pb)	<5 ppm	PASS	90
	Mercury (Hg)	<2 ppm	PASS	60
	Selenium (Se)	<2 ppm	PASS	500
	Antimony (Sb)	<2 ppm	PASS	60
	Arsenic (As)	<2 ppm	PASS	25
	Barium (Ba)	<2 ppm	PASS	1000
	Cadmium (Cd)	<2 ppm	PASS	75
Chromium (Cr)	<5 ppm	PASS	60	
Lead (Pb)	<5 ppm	PASS	90	
Mercury (Hg)	<2 ppm	PASS	60	
Selenium (Se)	<2 ppm	PASS	500	

ppm (part per million)

< =mg / kg

< =Less Than

(Total uncertainty=Results quoted have been corrected for uncertainty. -)



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Test Method	Result	Requirements
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**Toxic Elements Analysis**

BS EN 71-3 : 1995

Acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma-

ICP\_OES.

Sample	Element (Symbol)	RESULT IN ppm	PASS/FAIL	Requirement (ppm)
Sample 5	Antimony (Sb)	<2 ppm	PASS	60
	Arsenic (As)	<2 ppm	PASS	25
	Barium (Ba)	<2 ppm	PASS	1000
	Cadmium (Cd)	<2 ppm	PASS	75
	Chromium (Cr)	<5 ppm	PASS	60
	Lead (Pb)	<5 ppm	PASS	90
Sample 6	Mercury (Hg)	<2 ppm	PASS	60
	Selenium (Se)	<2 ppm	PASS	500
	Antimony (Sb)	<2 ppm	PASS	60
	Arsenic (As)	<2 ppm	PASS	25
	Barium (Ba)	<2 ppm	PASS	1000
	Cadmium (Cd)	<2 ppm	PASS	75
Sample 7	Chromium (Cr)	<5 ppm	PASS	60
	Lead (Pb)	<5 ppm	PASS	90
	Mercury (Hg)	<2 ppm	PASS	60
	Selenium (Se)	<2 ppm	PASS	500
	Antimony (Sb)	<2 ppm	PASS	60
	Arsenic (As)	<2 ppm	PASS	25
	Barium (Ba)	<2 ppm	PASS	1000
	Cadmium (Cd)	<2 ppm	PASS	75
	Chromium (Cr)	<5 ppm	PASS	60
	Lead (Pb)	<5 ppm	PASS	90
	Mercury (Hg)	<2 ppm	PASS	60
	Selenium (Se)	<2 ppm	PASS	500

ppm (part per million) =mg / kg  
 < =Less Than

(Total uncertainty=Results quoted have been corrected for uncertainty. -)



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Test Method	Result	Requirements
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**Carcinogenous Dyestuff**

IHTM AL.2.091 refer to DIN 54231 By High Performance Liquid Chromatography (HPLC) Analysis :

Sample	COMPOUND	RESULT (ppm)	Requirements
Sample 1	ACID RED 26	Not Detected	Not Detected*
	BASIC RED 9	Not Detected	
	BASIC VIOLET 14	Not Detected	
	DIRECT BLACK 38	Not Detected	
	DIRECT BLUE 6	Not Detected	
	DIRECT RED 28	Not Detected	
	DISPERSE BLUE 1	Not Detected	
	DISPERSE ORANGE 11	Not Detected	
	DISPERSE YELLOW 3	Not Detected	
Sample 2	ACID RED 26	Not Detected	Not Detected*
	BASIC RED 9	Not Detected	
	BASIC VIOLET 14	Not Detected	
	DIRECT BLACK 38	Not Detected	
	DIRECT BLUE 6	Not Detected	
	DIRECT RED 28	Not Detected	
	DISPERSE BLUE 1	Not Detected	
	DISPERSE ORANGE 11	Not Detected	
	DISPERSE YELLOW 3	Not Detected	
Sample 3	ACID RED 26	Not Detected	Not Detected*
	BASIC RED 9	Not Detected	
	BASIC VIOLET 14	Not Detected	
	DIRECT BLACK 38	Not Detected	
	DIRECT BLUE 6	Not Detected	
	DIRECT RED 28	Not Detected	
	DISPERSE BLUE 1	Not Detected	
	DISPERSE ORANGE 11	Not Detected	
	DISPERSE YELLOW 3	Not Detected	

ppm (part per million) =mg / kg  
 Detection Limit =2 ppm  
 < =Less Than  
 ND =Not Detected  
 \*Eco Testing Standard for Textiles

(Total uncertainty=± 8 %)



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Test Method	Result	Requirements
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**Carcinogenous Dyestuff**

IHTM AL.2.091 refer to DIN 54231 By High Performance Liquid Chromatography (HPLC) Analysis :

COMPOUND	RESULT (ppm)	
<b>Sample 4</b>		
ACID RED 26	Not Detected	Not Detected*
BASIC RED 9	Not Detected	
BASIC VIOLET 14	Not Detected	
DIRECT BLACK 38	Not Detected	
DIRECT BLUE 6	Not Detected	
DIRECT RED 28	Not Detected	
DISPERSE BLUE 1	Not Detected	
DISPERSE ORANGE 11	Not Detected	
DISPERSE YELLOW 3	Not Detected	
<b>Sample 5</b>		
ACID RED 26	Not Detected	Not Detected*
BASIC RED 9	Not Detected	
BASIC VIOLET 14	Not Detected	
DIRECT BLACK 38	Not Detected	
DIRECT BLUE 6	Not Detected	
DIRECT RED 28	Not Detected	
DISPERSE BLUE 1	Not Detected	
DISPERSE ORANGE 11	Not Detected	
DISPERSE YELLOW 3	Not Detected	
<b>Sample 6</b>		
ACID RED 26	Not Detected	Not Detected*
BASIC RED 9	Not Detected	
BASIC VIOLET 14	Not Detected	
DIRECT BLACK 38	Not Detected	
DIRECT BLUE 6	Not Detected	
DIRECT RED 28	Not Detected	
DISPERSE BLUE 1	Not Detected	
DISPERSE ORANGE 11	Not Detected	
DISPERSE YELLOW 3	Not Detected	
<b>Sample 7</b>		
ACID RED 26	Not Detected	Not Detected*
BASIC RED 9	Not Detected	
BASIC VIOLET 14	Not Detected	
DIRECT BLACK 38	Not Detected	
DIRECT BLUE 6	Not Detected	
DIRECT RED 28	Not Detected	
DISPERSE BLUE 1	Not Detected	
DISPERSE ORANGE 11	Not Detected	
DISPERSE YELLOW 3	Not Detected	

ppm (part per million) =mg / kg  
 Detection Limit =2 ppm  
 < =Less Than  
 ND =Not Detected

\*Eco Testing Standard for Textiles

(Total uncertainty=± 8%)

## END OF TEST REPORT ##



2111

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