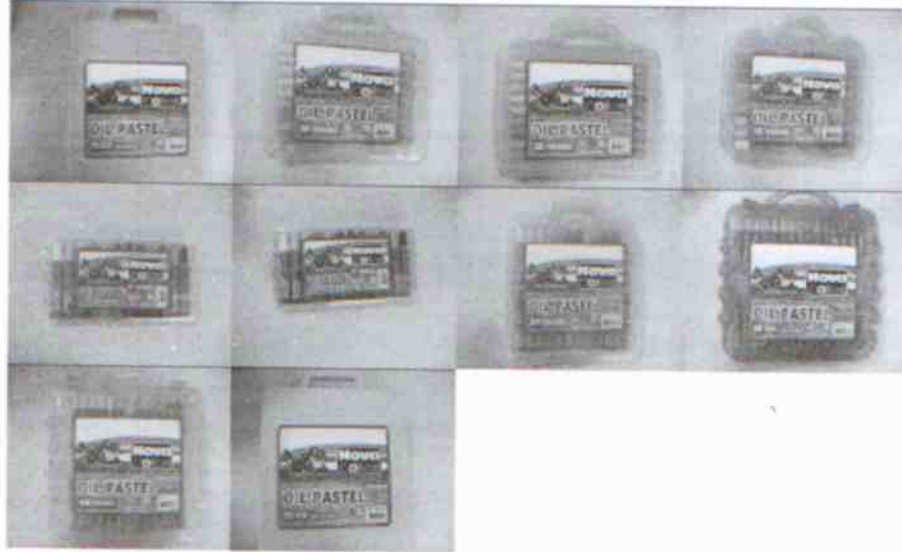


TEST REPORT

REPORT NUMBER : TURA120020855
APPLICANT NAME **Karslıođlu Kırt. San. ve Tic. A.Ş.**
ADDRESS Davutpaşa Cad. Yılanlı Ayazma Yolu Uđur Plaza No:4/B Davutpaşa İstanbul TURKEY
FAX NO :0212 481 63 81
Attention :Özer Karslıođlu (karslioglu@karslioglu.com.tr)
SAMPLE DESCRIPTION : One sample of Nova Color oil pastel
BUYER : TÜKİD
DATE IN : 27 February, 2012
DATE OUT : 12 March, 2012

PHOTO OF PRODUCT TESTED :



Zeynep Akın
Zeynep Akın
Assistant Chemical Laboratory Manager

Neslihan Sözer
Neslihan Sözer
Chemical Laboratory Manager



2111

Intertek Test Hizmetleri A.S.
Merkez Mahallesi Sanayi Cad. No: 23 Altındađ Plaza Yenibosna 34197 - ISTANBUL / TURKEY
Phone : +90.212. 496 46 46 Fax : +90.212. 452 80 55
e-mail : labtest.turkey@intertek.com
www.intertek-labtest-tur.com



120020855

Code	Test Method	Result	Requirements
Part No	Tested Part	Part No	Tested Part
1	WHITE DYE (1)	43	LIGHT BLUE DYE (1)
2	WHITE DYE (2)	44	LIGHT BLUE DYE (2)
3	WHITE DYE (3)	45	LIGHT BLUE DYE (3)
4	YELLOW DYE (1)	46	LIGHT BLUE DYE (4)
5	YELLOW DYE (2)	47	BLUE DYE (1)
6	YELLOW DYE (3)	48	BLUE DYE (2)
7	YELLOW DYE (4)	49	NAVY DYE
8	YELLOW DYE (5)	50	DARK BLUE DYE
9	LIGHT PINK DYE (1)	51	PURPLE DYE (1)
10	LIGHT PINK DYE (2)	52	PURPLE DYE (2)
11	LIGHT PINK DYE (3)	53	DARK PURPLE DYE (1)
12	LIGHT PINK DYE (4)	54	DARK PURPLE DYE (2)
13	ORANGE DYE	55	DARK PURPLE DYE (3)
14	LIGHT ORANGE DYE	56	LIGHT TURQUOISE DYE
15	LIGHT PINK DYE (1)	57	KHAKI DYE
16	LIGHT PINK DYE (2)	58	LIGHT GREEN DYE (1)
17	PINK DYE	59	LIGHT GREEN DYE (2)
18	RED DYE (1)	60	LIGHT GREEN DYE (3)
19	RED DYE (2)	61	LIGHT GREEN DYE (4)
20	DARK RED DYE (1)	62	GREEN DYE (1)
21	DARK RED DYE (2)	63	GREEN DYE (2)
22	DARK RED DYE (3)	64	GREEN DYE (3)
23	BROWN DYE (1)	65	GREEN DYE (4)
24	BROWN DYE (2)	66	DARK GREEN DYE (1)
25	BROWN DYE (3)	67	DARK GREEN DYE (2)
26	BROWN DYE (4)	68	DARK GREEN DYE (3)
27	DARK BROWN DYE (1)	69	DARK GREEN DYE (4)
28	DARK BROWN DYE (2)	70	BLACK DYE
29	LIGHT BROWN DYE (1)	71	LIGHT BLUE OUTER PLASTIC (NC-2136)
30	LIGHT BROWN DYE (2)	72	BLUE PLASTIC (NC-2135 / NC-2136)
31	LIGHT BROWN DYE (3)	73	WHITE INNER PLASTIC (NC-2136)
32	LIGHT BROWN DYE (4)	74	WHITE PLASTIC PART
33	TURQUOISE DYE (1)	75	LIGHT PINK OUTER PLASTIC (NC-2136)
34	TURQUOISE DYE (2)	76	PINK PLASTIC (NC-2134/NC-2136)
35	GREY DYE (1)	77	PURPLE PLASTIC (NC-2136)
36	GREY DYE (2)	78	PINK OUTER PLASTIC (NC-2134)
37	LIGHT GREY DYE	79	TRANSPARENT INNER PLASTIC (NC-2134/NC-2135/NC-2133/NC-2131)
38	DARK GREY DYE	80	BLUE OUTER PLASTIC (NC-2135)
39	BEIGE DYE	81	LIGHT BLUE OUTER PLASTIC (NC-2133/NC-2131)
40	DARK PINK DYE	82	LIGHT PINK OUTER PLASTIC (NC-2133/NC-2132)
41	LILAC DYE	83	TRANSPARENT OUTER PLASTIC (NC-2130)
42	LIGHT PURPLE DYE		

Code	Test Method	Result	Requirements
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RESULTS :

Analysis Parameter	Reference Analysis Method	PASS	FAIL	Norm Limit	Standard for Norm Limit	Tested Part
Azo Dyes	64 LFBG B 82.02.2	P	-	30 ppm	2004/21/EC	Part 1-83
Toxic Element Analysis	BS EN 71-3:1995	P	-	Sb: 60 ppm As: 25 ppm Ba: 1000 ppm Cd: 75 ppm Cr: 60 ppm Pb: 90 ppm Hg: 60 ppm Se: 500 ppm	EN 71-3	Part 1-83
Phthalate	EN 14372 by GC MS	P	-	DBP/DEHP/BBP : 1000 ppm DINP/DNOP/ DIDP :1000 ppm	(27893) Notification On Market Supervision And Controls Regarding Hazardous Chemical Contents Of Some End- User Products	Part 1-83

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 report shall not be reproduced except in full, without the written approval of the laboratory. 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.



Code	Test Method	Result	Requirements
Azo Dyestuff			
64 LFGB 82.02.2:2004			
Determination of Certain aromatic Amines derived from azo colorants followed by GC- MS Analysis			
Part 1&2&3&4&5&6&7&8&9&10&11&12&13&14&15&16&17&18&19&20&21&22&23&24&25&26&27&28&29&30&31&32&33&34&35&36&37&38&39&40&41&42&43&44&45			
1)	Composite sample of White (1), White (2), White (3) dye	PASS	30 ppm
2)	Composite sample of Yellow (1), Yellow (2), Yellow (3) dye	PASS	30 ppm
3)	Composite sample of Yellow (4), Yellow (5), Light Pink (1) dye	PASS	30 ppm
4)	Composite sample of Light Pink (2), Light Pink (3), Light Pink (4) dye	PASS	30 ppm
5)	Composite sample of Orange, Light Orange, Light Pink (1) dye	PASS	30 ppm
6)	Composite sample of Light Pink (2), Pink, Red (1) dye	PASS	30 ppm
7)	Composite sample of Red (2), Dark Red (1), Dark Red (2) dye	PASS	30 ppm
8)	Composite sample of Dark red (3), Brown dye (1), Brown dye (2) dye	PASS	30 ppm
9)	Composite sample of Brown dye (3), Brown dye (4), Dark Brown (1) dye	PASS	30 ppm
10)	Composite sample of Dark Brown (2), Light Brown (1), Light Brown (2) dye	PASS	30 ppm
11)	Composite sample of Light Brown (3), Light Brown (4), Turquoise (1) dye	PASS	30 ppm
12)	Composite sample of Turquoise (2), Grey (1), Grey (2) dye	PASS	30 ppm
13)	Composite sample of Light Grey, Dark Grey, Beige dye	PASS	30 ppm
14)	Composite sample of Dark Pink, Lilac, Light Purple dye	PASS	30 ppm
15)	Composite sample of Light Blue (1), Light Blue (2), Light Blue (3) dye	PASS	30 ppm

INTERPRETATION OF AZO-DYES TEST RESULTS:

AS PER GERMAN TEST PROCEDURE FOR DETECTION OF CARCINOGENIC AMINES IN DYED MATERIALS PUBLISHED IN THE OFFICIAL COMPILATION OF TEST METHODS TEXTILE ACCORDING TO § 64 LFGB 82.02-2, LEATHER ACCORDING TO § 64 LFGB 82.02-3, PES ACCORDING TO § 64 LFGB 82.02-4, EXTRACTED BY CITRATE BUFFERED SOLUTION pH 6 AT 70 °C AND DETECTED BY GC/MS AND CONTROLLED BY HPLC/DAD AND THIN LAYER CHROMATOGRAPHIC ANALYSIS.

FORBIDDEN AMINE

	CAS NO
4-AMINOBIIPHENYL	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'-DIAMINOBIIPHENYLMETHANE	101-77-9
3,3'-DICHLOROBENZIDINE	91-94-1
3,3'-DIMETHOXYBENZIDINE	119-90-4
3,3'-DIMETHYLBENZIDINE	119-93-7
3,3'-DIMETHYL-4,4' DIAMINOBIIPHENYLMETHANE	838-88-0
P-CRESIDINE	120-71-8
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

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

< = Less Than
 ppm(Part per million)= mg/ kg
 Detection Limit = 5 ppm
 Total Uncertainty = ±10%



Code	Test Method	Result	Requirements
Azo Dyestuff			
64 LFGB 82.02.2:2004			
Determination of Certain aromatic Amines derived from azo colorants followed by GC- MS Analysis			
Part 46&47&48&49&50&51&52&53&54&55&56&57&58&59&60&61&62&63&64&65&66&67&68&69&70&71&72&73&74&75&76&77&78			
16)	Composite sample of Light Blue (4), Blue (1), Blue (2) dye	PASS	30 ppm
17)	Composite sample of Navy, Dark Blue, Purple (1) dye	PASS	30 ppm
18)	Composite sample of Purple (2), Dark Purple (1), Dark Purple (2) dye	PASS	30 ppm
19)	Composite sample of Dark Purple (3), Light Turquoise, Khaki dye	PASS	30 ppm
20)	Composite sample of Light Green (1), Light Green (2), Light Green (3) dye	PASS	30 ppm
21)	Composite sample of Light Green (4), Green (1), Green (2) dye	PASS	30 ppm
22)	Composite sample of Green (3), Green (4), Dark Green (1) dye	PASS	30 ppm
23)	Composite sample of Dark Green (2), Dark Green (3), Dark Green (4) dye	PASS	30 ppm
24)	Composite sample of Black dye, Light Blue outer plastic (NC-2136), Blue plastic (NC-2135/NC-2136)	PASS	30 ppm
25)	Composite sample of White inner plastic (NC-2136), White plastic part, Light Pink outer plastic (NC-2136)	PASS	30 ppm
26)	Composite sample of Pink plastic (NC-2134/NC-2136), Purple plastic (NC-2136), Pink outer plastic (NC-2134)	PASS	30 ppm

INTERPRETATION OF AZO-DYES TEST RESULTS:

AS PER GERMAN TEST PROCEDURE FOR DETECTION OF CARCINOGENIC AMINES IN DYED MATERIALS PUBLISHED IN THE OFFICIAL COMPILATION OF TEST METHODS TEXTILE ACCORDING TO § 64 LFGB 82.02-2, LEATHER ACCORDING TO § 64 LFGB 82.02-3, PES ACCORDING TO § 64 LFGB 82.02-4, EXTRACTED BY CITRATE BUFFERED SOLUTION pH 6 AT 70 °C AND DETECTED BY GC/MS AND CONTROLLED BY HPLC/DAD AND THIN LAYER CHROMATOGRAPHIC ANALYSIS.

FORBIDDEN AMINE

	CAS NO
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3,3'-DICHLOROBENZIDINE	91-94-1
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3,3'-DIMETHYLBENZIDINE	119-93-7
3,3'-DIMETHYL-4,4' DIAMINOBIPHENYLMETHANE	838-88-0
P-CRESIDINE	120-71-8
4,4'-METHYLENE-BIS-(2 CHLOROANILINE)	101-14-4
4,4'-OXYDIANILINE	101-80-4
4,4'-THIODIANILINE	139-65-1
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2,4-TOLUYLENDIAMINE	95-80-7
2,4,5-TRIMETHYLANILINE	137-17-7
O-ANISIDINE	90-04-0
**P-AMINOAZOBENZENE	60-09-3

NOTE:* The amines o-amino-azotoluene and 2-amino-4-nitrotoluene are detected by its splitted product o-toluidine and 2,4- toluenylenediamine.
****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

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 ppm(Part per million)= mg/ kg
 Detection Limit = 5 ppm
 Total Uncertainty = ±10%



Code	Test Method	Result	Requirements
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Azo Dyestuff

64 LFGB 82.02.2:2004

Determination of Certain aromatic Amines derived from azo colorants followed by GC- MS Analysis

Part 79&80&81&82&83

27) Composite sample of Transpamet inner plastic (NC-2134/NC-2135/NC-2133/NC-2131), Blue outer plastic (NC-2135), Light Blue outer plastic (NC-2133/NC-2131) **PASS** 30 ppm

28) Composite sample of Light Pink outer plastic (NC-2133/NC-2132), Transparent outer plastic (NC-2130) **PASS** 30 ppm

INTERPRETATION OF AZO-DYES TEST RESULTS:

AS PER GERMAN TEST PROCEDURE FOR DETECTION OF CARCINOGENIC AMINES IN DYED MATERIALS PUBLISHED IN THE OFFICIAL COMPILATION OF TEST METHODS TEXTILE ACCORDING TO § 64 LFGB 82.02-2, LEATHER ACCORDING TO § 64 LFGB 82.02-3, PES ACCORDING TO § 64 LFGB 82.02-4, EXTRACTED BY CITRATE BUFFERED SOLUTION pH 6 AT 70 °C AND DETECTED BY GC/MS AND CONTROLLED BY HPLC/DAD AND THIN LAYER CHROMATOGRAPHIC ANALYSIS.

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**P-AMINOAZOBENZENE	60-09-3

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

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