

TEST REPORT Job No./Report No TR1071597-RV2 Date:9 February 2017 Page 1 of 8

ARTEKYA DANISMALIK AR GE TEKS MAK SAN VE TIC LTD STI
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To the attention of R&D Hakan Aydın

The following sample(s) was (were) submitted and identified by/on behalf of the client as:

Sample No.	Sample Description
A	Knitwear fabric in dark beige (Claimed to be Nasiol T coated knitwear fabric in dark beige)

Client's reference No. : TR 1071597-RV2
 Buyer : Not Provided
 Order No. : Not Provided
 Model/Style No. : Not Provided
 Article No. : Not Provided
 Age Grade : Not Provided
 Manufacturer : ARTEKYA DANISMANLIK
 Country of Origin : TURKEY
 Country of Destination : EUROPE
 Shipment Date : Not Provided
 Fiber Composition : Not Provided
 Fabric Weight : Not Provided
 End Use : Not Provided
 Agency : Not Provided
 Sample Receiving Date : 6 February 2017
 Resubmit Date : 9 February 2017
 Test Performing Period : 6 February 2017 ~ 8 February 2017
Overall Conclusion : See Results
 Test Results : Please refer to the next page(s).
Performed Test Summary: Selected test(s) as requested by client against Client's performance standard.

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Test Parameters	Result
Chemical tests	A1
Azo Dyes (Synthetic & Blend Fibers)	M
Allergenous Disperse Dyes	*
Carcinogenic Dyes	*

Remarks	:	M = Meets client's requirement
		F = Below client's requirement
		I = Inconclusive
		* = No specified requirement
Notes:	Conclusions on meet/fail are based on the test result from the actual sampling of the received sample(s).	
	Residual sample can be returned to client if requested.	

The test results relate to the tested items only.
Test reports without SGS seal and authorized signatures are invalid.
Reported results do not include uncertainties.

Issued in Istanbul
Signed for and on behalf of
SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.

**IN THIS REVISED-1 REPORT, SAMPLE DESCRIPTION WAS CORRECTED BY THE REQUEST OF THE APPLICANT.
THIS REPORT SUPERSEDES OUR REPORT 1071597-RV1 DATED 09.02.2017**

Tuğba Mert
Customer Services Supervisor

Arzu Yılmaz
Customer Services Team Leader




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Component List / List of Materials for Chemical Test

Sample No.	Sample Description	Material No.	Component	Material	Colour	Fiber Type*
A	Knitwear fabric (Nasiol T coated fabric)	A1	Main	Textile	Dark Beige	Type C

*This fiber type identification is for the selection of azo dye testing procedure(i.e. EN 14362-1/3:2012)

Note:

Type A=Textile contains natural fibers only and/or regenerated fibers exclude the group of acetate.

Type B=Textile contains polyester fibers only

Type C=Textile contains man-made fibers and/or man-made blended fibers(except polyester fibers)

N/A:Not Applicable

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Azo Dyes (Synthetic & Blend Fibers)¹

Test Method: With reference to BS EN 14362-1:2012 - Analysis by GC-MS/HPLC-DAD

Component	Cas No	A1
4-Aminobiphenyl	92-67-1	n.d.
Benzidine	92-87-5	n.d.
4-Chlor-o-toluidine	95-69-2	n.d.
2-Naphthylamine	91-59-8	n.d.
o-Aminoazotoluene	97-56-3	n.d.
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	n.d.
4-Chloroaniline	106-47-8	n.d.
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	n.d.
4,4'-Diaminodiphenylmethane	101-77-9	n.d.
3,3'-Dichlorobenzidine	91-94-1	n.d.
3,3'-Dimethoxybenzidine	119-90-4	n.d.
3,3'-Dimethylbenzidine	119-93-7	n.d.
4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	n.d.
p-Cresidine	120-71-8	n.d.
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	n.d.
4,4'-Oxydianiline	101-80-4	n.d.
4,4'-Thiodianiline	139-65-1	n.d.
o-Toluidine	95-53-4	n.d.
4-methyl-m-phenylenediamine / 2,4- Toluendiamine	95-80-7	n.d.
2,4,5-Trimethylaniline	137-17-7	n.d.
4-aminoazobenzene	60-09-3	n.d.
O-Anisidine	90-04-0	n.d.
	Conclusion	Pass

Note(s):

n.d. = not detected
Detection Limit = 5 mg/kg (for individual compound)

Requirement by the client= No requirement

Recommended Max Limit : 30 mg /kg

Remark: # # The BS EN 14362-1:2012 and ISO 17234-1 methods will enable further cleavage of 4-aminoazobenzene to

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non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5mg/kg). Otherwise, the test method of EN 14362-3:2012 / ISO 17234-2 will be employed to verify the presence of 4-aminoazobenzene.

Max. limit specified by Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2002/61/EC).

Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.

In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

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Allergenus Disperse Dyes¹

Test Method: With reference to DIN 54231:2005 Analysis by LC-DAD

<u>Component</u>	<u>Cas No</u>	<u>A1</u>
C.I. Disperse Blue 1 (Structure No: C.I. 64 500)	2475-45-8	n.d.
C.I. Disperse Blue 3 (Structure No: C.I. 61 505)	2475-46-9	n.d.
C.I. Disperse Blue 7 (Structure No: C.I. 62 500)	3179-90-6	n.d.
C.I. Disperse Blue 26 (Structure No: C.I. 63 305)	3860-63-7	n.d.
C.I. Disperse Blue 35	56524-77-7 56524-76-6	n.d.
C.I. Disperse Blue 102	69766-79-6 / 12222-97-8	n.d.
C.I. Disperse Blue 106	68516-81-4 / 12223-01-7	n.d.
C.I. Disperse Blue 124	61951-51-7	n.d.
C.I. Disperse Brown 1	23355-64-8	n.d.
C.I. Disperse Orange 1 (Structure No: C.I. 11 080)	2581-69-3	n.d.
C.I. Disperse Orange 3 (Structure No: C.I. 11 005)	730-40-5	n.d.
C.I. Disperse Orange 37/76	13301-61-6	n.d.
C.I. Disperse Red 1 (Structure No: C.I. 11 110)	2872-52-8	n.d.
C.I. Disperse Red 11 (Structure No: C.I. 62 015)	2872-48-2	n.d.
C.I. Disperse Red 17 (Structure No: C.I. 11 210)	3179-89-3	n.d.
C.I. Disperse Yellow 1 (Structure No: C.I. 10 345)	119-15-3	n.d.
C.I. Disperse Yellow 3 (Structure No: C.I. 11 855)	2832-40-8	n.d.
C.I. Disperse Yellow 9 (Structure No: C.I. 10 375)	6373-73-5	n.d.
C.I. Disperse Yellow 23	6250-23-3	n.d.
C.I. Disperse Yellow 39	12236-29-2	n.d.
C.I. Disperse Yellow 49	54824-37-2	n.d.
C.I. Disperse Orange 149	85136-74-9	n.d.

Conclusion

See Results

Note(s):

Results reported on sample extract only. The unit of result is mg/kg.

n.d. = not detected

Detection Limit = 15 mg/kg (for individual compound)

Requirement by the client= No Requirement

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Carcinogenic Dyes¹

Test Method: With reference to DIN 54231:2005 Analysis by LC-DAD

<u>Component</u>	<u>Cas No</u>	<u>A1</u>
C.I. Acid Red 26 (Structure No: C.I. 16 150)	3761-53-3	n.d.
C.I. Basic Red 9 (Structure No: C.I. 42 500)	569-61-9	n.d.
C.I. Direct Black 38 (Structure No: C.I. 30 235)	1937-37-7	n.d.
C.I. Direct Blue 6 (Structure No: C.I. 22 610)	2602-46-2	n.d.
C.I. Direct Red 28 (Structure No: C.I. 22 120)	573-58-0	n.d.
C.I. Basic Violet 14 (Structure No: C.I. 42 510)	632-99-5	n.d.
C.I. Disperse Orange 11 (Structure No: C.I. 60 700)	82-28-0	n.d.
C.I. Disperse Blue 1 (Structure No: C.I. 64 500)	2475-45-8	n.d.
C.I. Disperse Yellow 3 (Structure No: C.I. 11 855)	2832-40-8	n.d.

Conclusion

See Results

Note(s):

Results reported on sample extract only. The unit of result is mg/kg.

n.d. = not detected

Detection Limit = 15 mg/kg (for individual compound)

Requirement by the client= No Requirement

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* * * End of Test Report * * *

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