

Test Report

Report No.: CTT2104034065EN

Date: Apr. 19, 2021

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Applicant: DONGYANG JIA GUAN COMMODITY CO., LTD

Address: NO.246.HULIAN WEST ROAD.JIANGBEI STREET.DONGYANG CITY.ZHEJIANG PROVINCE.CHINA.322100

Sample Received Date: Apr. 14, 2021

Completed Date: Apr. 19, 2021

The following merchandise was (were) submitted and identified on behalf of the applicant as:

Sample Name: Microfiber cloth

Manufacturer: DONGYANG JIA GUAN COMMODITY CO., LTD

Supplier: DONGYANG JIA GUAN COMMODITY CO., LTD

Packaging: Blister shell

Exported to: USA

Test Result(s): Please refer to next page(s).

Signed for and on Behalf of CTT



Frank / Lab manager

Consumer Testing Technology Co., Ltd.

Signed for and on Behalf of CTT



Kent / Engineer

Consumer Testing Technology Co., Ltd.

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Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Tested materials of submitted samples	Azocolourants and Azodyes	DATA
2	Tested materials of submitted samples	Formaldehyde content	DATA
3	Submitted samples	Client's requirements on colorfastness to laundering	PASS
4	Submitted samples	Client's requirements on colorfastness to crocking	PASS
5	Submitted samples	Absorbency of textiles	DATA
6	Submitted samples	Dimensional changes of fabrics after home laundering	DATA
7	Submitted samples	Assessment of fibre shedding or pile loss	DATA

Test Result(s):

Azocolourants and Azodyes

Method: ISO 14362-1:2017 and ISO 14362-3:2017, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS)/ High Performance Liquid Chromatograph (HPLC-DAD).

No.	Substances Name	CAS No.	Result (mg/kg)
			1-1
1	biphenyl-4-ylamine/ 4-aminodiphenyl/ xenylamine	92-67-1	N.D.
2	benzidine	92-87-5	N.D.
3	4-chloro-o-toluidine	95-69-2	N.D.
4	2-naphthylamine	91-59-8	N.D.
5△	o-aminoazotoluene/ 4-o-tolylazo-o-toluidine/ 4-amino-2', 3-dimethylazobenzene	97-56-3	N.D.
6△	2-amino-4-nitrotoluene/ 5-nitro-o-toluidine	99-55-8	N.D.
7	4-chloroaniline	106-47-8	N.D.
8	4-methoxy-m-phenylenediamine	615-05-4	N.D.
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane	101-77-9	N.D.
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1	N.D.
11	3,3'-dimethoxybenzidine/ o-dianisidine	119-90-4	N.D.
12	3,3'-dimethylbenzidine/ 4,4'-bi-o-toluidine	119-93-7	N.D.
13	4,4'-methylenedi-o-toluidine	838-88-0	N.D.

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14	6-methoxy-m-toluidine/ p-cresidine	120-71-8	N.D.
15	4,4'-methylene-bis-(2-chloroaniline)/ 2,2'-dichloro-4,4'-methylene-dianiline	101-14-4	N.D.
16	4,4'-oxydianiline	101-80-4	N.D.
17	4,4'-thiodianiline	139-65-1	N.D.
18	o-toluidine/ 2-aminotoluene	95-53-4	N.D.
19	4-methyl-m-phenylenediamine/ 2,4-toluylendiamine	95-80-7	N.D.
20	2,4,5-trimethylaniline	137-17-7	N.D.
21	o-anisidine / 2-methoxyaniline	90-04-0	N.D.
22◇	4-aminoazobenzene	60-09-3	N.D.
23	2,4-xylidine	95-68-1	N.D.
24	2,6-xylidine	87-62-7	N.D.

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 5 mg/kg.
 4. "△" = The CAS No. 97-56-3 (No.5) and 99-55-8 (No.6) are further reduced to CAS No.95-53-4 (No.18) and 95-80-7(No.19).
 5. "◇" = Azo colorants that are able to form 4-aminoazobenzene(No.22), generate under the condition of this method aniline and 1, 4-phenylenediamine, therefore, the method of ISO 14362-3:2017 was employed to verify the 4-aminoazobenzene.

Formaldehyde

Method: ISO 14184-1:2011, analyzed by Ultraviolet visible Spectrometry (UV-Vis).

Material No.	Result (mg/kg)
1-1	N.D.

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 16 mg/kg.

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Test Result(s):

Colorfastness to laundering

Method: AATCC 61-2013(E2016), Test No.: 1A, Machine wash at 40°C (105 °F) with 0.37 %'1993 AATCC standard reference detergent WOB' detergent with 10 steel balls. Multi-fiber No.10

Material No.	Test Item	Client's Requirement (Min. Grade)	Results (Grade)	Conclusion
1-2	Color change	3.5	4.5	PASS
	Color stain on	--		
	Acetate	3.5	4.5	
	Cotton	3.5	4.5	
	Nylon	3.5	4.5	
	Polyester	3.5	4.5	
	Acrylic	3.5	4.5	
	Wool	3.5	4.5	

Colorfastness to crocking

Method: AATCC 8-2016

Material No.	Test Item	Client's Requirement (Min. Grade)	Results (Grade)	Conclusion
1-2	Dry(Color Staining)	4.0	4.5	PASS
	Wet(Color Staining)	3.5	4.5	

Note:

Explanation of Colorfastness Results

- Grade 5 Negligible or no change or staining
- Grade 4 Slightly changed or stained
- Grade 3 Noticeably changed or stained
- Grade 2 Considerably changed or stained
- Grade 1 Much changed or heavily stained

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Test Result(s):

Absorbency of textiles

Method: AATCC 79-2014

Material No.	Test Item	Results (s)
1-2	Average absorbency time(face side):	0
	Average absorbency time(back side):	0

Remark: Shorter times indicate better absorbency.

Test Result:

Dimensional changes of fabrics after home laundering

Method: AATCC 135-2015

Hand wash at 40°C(105°F), line dry .

Material No.	Description
1-2	Gray fabric/towel

Test Item	Original (mm)	After 1 wash		
		Dimension (mm)	DC (%)	DC Average (%)
Length	253	256	+1.2	+0.5
	254	255	+0.4	
	258	258	0	
Width	253	252	-0.4	0
	251	252	+0.4	
	254	254	0	

Notes:

1. DC=Dimension Change
2. (+) means Extension, (-) means Shrinkage.

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Test Result(s):

Assessment of fibre shedding or pile loss^s

Method: SATRA TM227: 2016 (2018)

Material No.	Test Result (Grade)	
1-2	L1	4
	L2	4
	W1	4
	W2	4

Notes:

- Grade 5 No shedding
- Grade 4 Very slight shedding
- Grade 3 Slight shedding
- Grade 2 Moderate shedding
- Grade 1 Severe shedding

Test Material List

Material No.	Description	Location
1-1	Gray synthetic fiber	Towel
1-2	Gray fabric	Towel

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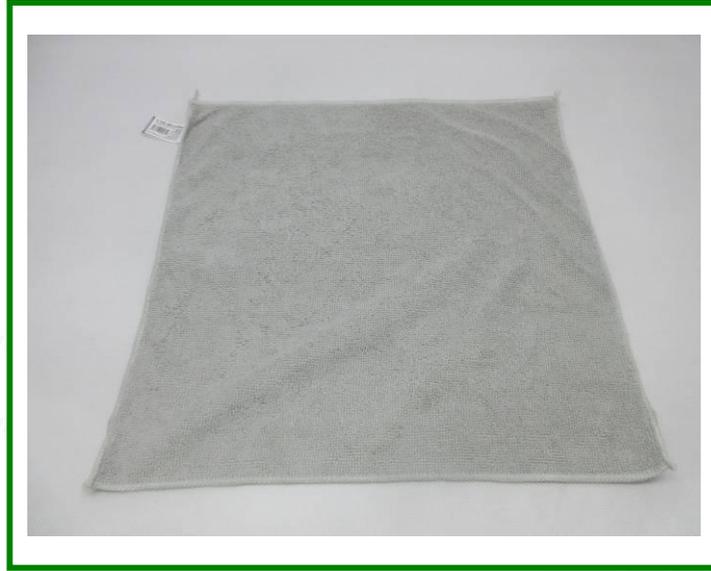
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Photo of Sample:



End of Report

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