

TEST REPORT

Test Report # 19B-0XXXX Date of Report Issue: January 28, 2019
Date of Sample Received: January 22, 2019 Pages: Page 1 of 12

CLIENT INFORMATION:

Company: ABC Industrial Group Limited
Recipient: John Preston
Recipient Email: Jpreston@ABC.com



SAMPLE INFORMATION:

Product Name: Kid's T shirt
Color: Red Manufacturer: ABC Industrial Group Limited
Composition: 65% Cotton, 35% Polyester Supplier: ABC Industrial Group Limited
Order No.: ABC123456 Country of Distribution: US
Number of Samples: 6 Country of Origin: China
Testing Period: 01/22/19 – 01/28/19

OVERALL RESULT:

FAIL

Refer to page 2 for test result summary and appropriate notes.

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The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.
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TEST RESULT SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	CPSIA Section 101 & 16 CFR 1303, Total Lead Content in Paints & Surface Coatings
PASS	Client Requirement, Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles
PASS	16 CFR 1610, Standard for the Flammability of Clothing Textiles
FAIL	Dimensional Stability to Washing
PASS	Colorfastness to Washing
PASS	Colorfastness to Rubbing
PASS	Colorfastness to Water
PASS	Fiber Content



DETAILED RESULTS:

CPSIA Section 101 & 16 CFR 1303, Total Lead Content in Paints & Surface Coatings

Analytical determination by ICP-OES (Method: CPSC-CH-E1003-09.1)

Specimen No.	1	2				
Element/Limit	Total Result	Total Result	Total Result	Total Result	Total Result	Total Result
Lead (Pb) 90 ppm	ND	ND				
Conclusion	PASS	PASS				

LT = Less Than

Results are reported in parts per million (ppm)

ND = Not Detected (Reporting Limit = 15 mg/kg)



DETAILED RESULTS:

Client Requirement, Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles

Test Method: EN 14362-1:2012
 Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.	3					
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
4-aminobiphenyl	92-67-1	ND				30
Benzidine	92-87-5	ND				30
4-chloro-o-toluidine	95-69-2	ND				30
2-naphtylamine	91-59-8	ND				30
o-Aminoazotoluene	97-56-3	ND				30
5-nitro-o-toluidine	99-55-8	ND				30
4-chloroaniline	106-47-8	ND				30
2,4-diaminoanisole	615-05-4	ND				30
4,4'-methylenedianiline	101-77-9	ND				30
3,3'-dichlorobenzidine	91-94-1	ND				30
o-dianisidine	119-90-4	ND				30
3,3'-dimethylbenzidine	119-93-7	ND				30
4,4'-methylenedi-o-toluidine	838-88-0	ND				30
p-cresidine	120-71-8	ND				30
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	ND				30
4,4'-oxydianiline	101-80-4	ND				30
4,4'-thiodianiline	139-65-1	ND				30
o-toluidine	95-53-4	ND				30
2,4-diaminotoluene	95-80-7	ND				30
2,4,5-trimethylaniline	137-17-7	ND				30
2-methoxyaniline	90-04-0	ND				30
4-aminoazobenzene	60-09-3	ND				30
Conclusion		PASS				

Note:
 mg/kg = Milligrams per kilogram
 LT = Less than
 ND = Not detected (Reporting Limit = 5 mg/kg)

Remark:
 In the case of levels per amine component less than or equal to 30 mg/kg, according to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected in the commodity submitted.



DETAILED RESULTS:

16 CFR 1610 Standard for the Flammability of Clothing Textiles

Fabric Description: Red T Shirt Fabric			
Fabric Type: Red Knit			
Tested Direction: Length			
Samples were prepared from finished garments.			
AS RECEIVED		REFURBISHED (dry cleaning & home laundering)	
Specimen#	Burn Rate (seconds)	Specimen#	Burn Rate (seconds)
1	DNI	1	DNI
2	DNI	2	DNI
3	DNI	3	DNI
4	DNI	4	DNI
5	DNI	5	DNI
Average:	No average burn rate calculated	Average:	No average burn rate calculated
Result: CLASS I - PASS			

DNI	Did not ignite.	IBE	Ignited, but extinguished.	__ sec.	Actual burn time measured and recorded by the timing device.
__ SF only	Time in seconds, surface flash only. No damage to the base fabric.		SF uc	Surface flash, under the stop thread, but does not break the stop thread.	
__ SFBB	Time in seconds, surface flash base burn starting at places other than the point of impingement as a result of surface flash.		SF pw	Surface flash, part way. No time shown because the surface flash did not reach the stop thread.	
__ SFBB poi	Time in seconds, surface flash base burn starting at the point of impingement.		SF poi	Surface flash, at the point of impingement only (equivalent to "did not ignite" for plain surfaces).	
__ SFBB poi*	Time in seconds, surface flash base burn possibly starting at the point of impingement. Asterisk is accompanied by the following statement: "Unable to make absolute determination as to source of base burns." This statement is added to the result of any specimen if there is a question as to origin of the base burn.				



DETAILED RESULTS:

Dimensional Stability to Washing

Test Method: AATCC 150 Dimensional Changes of Garments after Home

Specimen No.	3	
Items	Result	Client's Requirement
	After 1 Wash Shrinkage (%)	
Lengthwise	-6.0	-5.0% / +3.0%
Widthwise	-2.5	-5.0% / +3.0%
Conclusion	FAIL	

Remarks: (+) Means Extension (-) Means Shrinkage



DETAILED RESULTS:

Colorfastness to Washing

Test Method: AATCC 61 Colorfastness to Laundering: Accelerated

Specimen No.	3		
Items	Client's requirement	Result (Grade)	Conclusion
Change in shade	Min. 4	4-5	PASS
Staining on Multi-Fiber Stripe			
-Acetate	Min. 3-4	4	
-Cotton	Min. 3-4	3-4	
-Nylon	Min. 3-4	4	
-Polyester	Min. 3-4	4	
-Acrylic	Min. 3-4	4-5	
-Wool	Min. 3-4	4-5	

Grey Scale Rating:

Grade 5 - Negligible or no change / Staining

Grade 4 - Slightly changed / Stained

Grade 3 - Noticeably changed / Stained

Grade 2 - Considerably changed / Stained

Grade 1 - Much changed / Heavily stained



DETAILED RESULTS:

Colorfastness to Rubbing

Test Method: AATCC 8 Colorfastness to Crocking

Specimen No.	3		
Items	Client's requirement	Result (Grade)	Conclusion
Dry Staining	Min. 4	4-5	PASS
Wet Staining	Min. 3	3	

Grey Scale Rating:

Grade 5 - Negligible or no change / Staining

Grade 4 - Slightly changed / Stained

Grade 3 - Noticeably changed / Stained

Grade 2 - Considerably changed / Stained

Grade 1 - Much changed / Heavily stained



DETAILED RESULTS:

Colorfastness to Water

Test Method: AATCC 107 Colorfastness to Water

Specimen No.	3		
Items	Client's requirement	Result (Grade)	Conclusion
Change in shade	Min. 4	4-5	PASS
Staining on Multi-Fiber Stripe			
-Acetate	Min. 3-4	4	
-Cotton	Min. 3-4	4	
-Nylon	Min. 3-4	3-4	
-Polyester	Min. 3-4	4-5	
-Acrylic	Min. 3-4	4-5	
-Wool	Min. 3-4	4-5	

Grey Scale Rating:

Grade 5 - Negligible or no change / Staining

Grade 4 - Slightly changed / Stained

Grade 3 - Noticeably changed / Stained

Grade 2 - Considerably changed / Stained

Grade 1 - Much changed / Heavily stained



DETAILED RESULTS:

Fibre Content

Test Method: AATCC 20/20A – Fiber Analysis: Qualitative/Quantitative

Specimen No.	3		
Items	Client's requirement	Result	Conclusion
Cotton (%)	N/A	64	PASS
Polyester (%)	N/A	36	



SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description (Color)	Location
1	White Coating	Bear
2	Black Coating	Bear
3	Red Fabric T Shirt with Print	Finished T Shirt



SAMPLE PHOTO:



-End Report-

