

TEST REPORT NUMBER: PRTT00100583
APPLICANT: QUINTA & SANTOS - SCORE, LDA
RUA DA INDÚSTRIA, 54
VÁRZEA - BARCELOS
4755-522

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DATE OF EMISSION: 22/09/2022

For the attention of José Santos

SAMPLE DESCRIPTION: PO No. : QSS-NED
Reference : Jersey
Style No. : -
Colour : Brown
Fibre composition : 100% Cotton
Weight : 265g
1 - 1 knit sample
DATE OF RECEPTION: 02/09/2022
RESUBMITTED DATE: 05/09/2022
TEST PERFORMED BETWEEN DATES: 05/09/2022 and 21/09/2022
WORK DAYS: 14

REQUEST: Tests performed in accordance with APPLICANT TEST REQUEST specification

NOTES:

Samples

Test	1
‡ VOLATILE ORGANIC COMPOUNDS	M
‡ ALKYLPHENOLS	NC
‡ CARCINOGENIC DYESTUFFS	NC
DETECTION OF AMINES DERIVED FROM AZOCOLOURANTS AND AZODYES - 100% NATURAL	NC
DETERMINATION OF FREE AND HYDROLISED FORMALDEHYDE - WATER EXTRACTION METHOD	NC
‡ MATERIAL ANALYSIS	NC
‡ PAH	NA

M = Meet buyer's requirement; NM = does not meet buyer's requirement; NR = Not requested; NA = Not applicable; NC = No comment; SC = Still continues

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Hardlines and Chemistry Laboratory Manager
albino.costa@intertek.com



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Test Method	Results	Requirements
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‡ ALKYLPHENOLS

BS EN ISO 18254-1:2016

Sample: 1

RESULT

Determination of Alkylphenolethoxylates (APEO) for Textile
BS EN ISO 18254-1:2016 by LC-MS-MS

1-Brown jersey fabric	Result	Requirement
Nonylphenol (NP)	Not Detected	No
Octylphenol (OP)	Not Detected	
Nonylphenolethoxylates (NPEO)	Not Detected	
Octylphenolethoxylates (OPEO)	Not Detected	
No Requirement		

ppm= mg/kg

Detection Limit: 1 ppm

Estimated Total Uncertainty=(±21%)

‡ CARCINOGENIC DYESTUFFS

ISO 16373-3:2014

Sample: 1

RESULT

Determination of Carcinogenic Dyestuff
ISO 16373-3:2014 determined by LC-MS-MS, HPLC-DAD

COMPOUND	RESULT
ACID RED 26	Not Detected
BASIC RED 9	Not Detected
VIOLET 14	Not Detected
DIRECT BLACK 38	Not Detected
DIRECT BLUE 6	Not Detected
DIRECT BROWN 95	Not Detected
DIRECT RED 28	Not Detected
DIRECT RED 28	Not Detected



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Sample: 1

RESULT

DISPERSE BLUE 1 Not Detected
DISPERSE ORANGE 11 Not Detected
DISPERSE YELLOW 3 Not Detected
ACID
RED 114 Not Detected

ppm (part per million) =mg / kg
Detection Limit =0,2 mg/L ; 15 mg/kg
< =Less Than

Estimated Total Uncertainty=(±%36)

DETECTION OF AMINES DERIVED FROM AZOCOLOURANTS AND AZODYES - 100% NATURAL

ISO 14362-1:2017

Sample: 1

1 - Brown

INTERPRETATION OF AZO-DYES TEST RESULTS:

FORBIDDEN AMINE	CAS No.	RESULTS (mg/kg)
4-AMINODIPHENYL	92-67-1	N
BENZIDINE	92-87-5	N
4-CHLORO-O-TOLUIDINE	95-69-2	N
2-NAPHTHYLAMINE	91-59-8	N
#0-AMINOAZOTOLUENE	97-56-3	N
#5-NITRO-O-TOLUIDINE	99-55-8	N
4-CHLOROANILINE	106-47-8	N
2,4-DIAMINOANISOLE	615-05-4	N
4,4'-DIAMINODIPHENYLMETHANE	101-77-9	N
3,3'-DICHLOROBENZIDINE	91-94-1	N
3,3'-DIMETHOXYBENZIDINE	119-90-4	N
3,3'-DIMETHYLBENZIDINE	119-93-7	N
4,4'-METHYLENEDI-O-TOLUIDINE	838-88-0	N



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Sample: 1

P-CRESIDINE	120-71-8	N
4,4'-METHYLENE-BIS-(2-CHLORO-ANILINE)	101-14-4	N
4,4'-OXYDIANILINE	101-80-4	N
4,4'-THIODIANILINE	139-65-1	N
O-TOLUIDINE	95-53-4	N
2,4-TOLUYLENDIAMINE	95-80-7	N
2,4,5-TRIMETHYLANILINE	137-17-7	N
O-ANISIDINE	90-04-0	N
##4-AMINOAZOBENZENE	60-09-3	N
*2,4-XYLIDINE	95-68-1	N
*2,6-XYLIDINE	87-62-7	N

Remarks:

N = Not detected

< = Less than

Quantification limit = 5,0 ppm

ppm = parts per million = mg/kg

Uncertainty: ±25% of value

Notes:

#) The amines o-Aminoazotoluene and 5-Nitro-o-toluidine are detected by its product o-Toluidine and 2,4-Toluylendiamine.

##) Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4-phenylendiamine. The presence of these colorants can not be reliably ascertained without additional information, e.g. chemical structure of the colorant used.

###) According to the official method ISO 14362-1:2017, separate test is suggested to ascertain the compliance for result of mixed test in the range between 5 ppm and 30 ppm.

####) Azocolourants Content Requirement in Annex XVII Item 43 of the REACH Regulation (EC) No. 1907/2006.

DETERMINATION OF FREE AND HYDROLISED FORMALDEHYDE - WATER EXTRACTION METHOD

EN ISO 14184-1: 2011

Sample: 1

Result Not detectable (< 16 mg/kg)

Test Conditions Sample received: Not sealed



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Sample: 1
Test Conditions Range of calibration graph: 0 - 150 mg/kg
Mass of test specimens: Sample 1=1,5450 g ; Sample 2=1,5362 g
Uncertainty: $\pm 12\%$ of value

‡ MATERIAL ANALYSIS

With reference to USEPA 3050B / USEPA 3051 / USEPA 3051A / USEPA 3052, by acid digestion and determined by ICP-OES

Sample: 1

RESULT

Total Heavy Metals

IHTM AL.2.222 refer to USEPA 3050B / USEPA 3051A/ US EPA 3052 by acid digestion and determined by ICP-OES

	Result	Detection Limit	Requirement
Cadmium (Cd)	Not Detected	8 ppm	No
Chromium (Cr)	Not Detected	8 ppm	
Cobalt (Co)	Not Detected	8 ppm	
Antimony(Sb)	Not Detected	8 ppm	
Arsenic (As)	Not Detected	8 ppm	
Mercury (Hg)	Not Detected	8 ppm	
Argent (Ag)	Not Detected	8 ppm	

No Requirement

.
< = less than ppm: parts per million (mg/kg)

Estimated Total Uncertainty=(Dye: $\pm 16\%$, Glass: $\pm 16\%$, Metal: $\pm 16\%$, Plastic: $\pm 16\%$, Textile: $\pm 15\%$)

‡ VOLATILE ORGANIC COMPOUNDS

Solvent Extration followed by GC-MS

Sample: 1

RESULT

Volatile Organic Compounds

IHTM AL.2.409 refer to EPA 5000 & EPA 5021A with Headspace GC/MS



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Sample: 1

RESULT

	Result	Requirement
Benzene (71-43-2)	Not Detected	5 ppm
Carbon tetrachloride (56-23-5)	Not Detected	
Chloroform (67-66-3)	Not Detected	
Cyclohexanone (1108-94-1)	Not Detected	
Carbon disulfide (CS ₂) (75-15-0)	Not Detected	
1,1-Dichloroethylene (75-35-4)	Not Detected	
1,2-Dichloroethane (107-06-2)	Not Detected	1000 ppm
Ethylbenzene (100-41-4)	Not Detected	
Pentachloroethane (76-01-7)	Not Detected	
1,1,1,2- Tetrachloroethane (630-20-6)	Not Detected	
1,1,2,2- Tetrachloroethane (79-34-5)	Not Detected	
Tetrachloroethylene (PER) (127-18-4)	Not Detected	
Toluene (108-88-3)	Not Detected	
1,1,1- Trichloroethane (71-55-6)	Not Detected	
1,1,2- Trichloroethane (79-00-5)	Not Detected	
Trichloroethylene (79-01-6)	Not Detected	
Xylenes (meta-, ortho-, para-) (1330-20-7)	Not Detected	

Reporting limit : 5 ppm for benzene, 20 ppm for others

ppm : mg/kg

Detection Limit : 5 mg/kg

Estimated Total Uncertainty=(Plastic: ±9% ; Liquid: ±9% ; Textile: ±8%)



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