

TEST REPORT

Technical Report: (5220)210-0555 August 5, 2020

Date Received: July 28, 2020 Page 1 of 8

Ken / Janus / Alice / Jacky Tsang Dakota Flat A&B 3/F, Fast Industrial Bldg. 658 Castle Peak Road, Lai Chi Kok, Kowloon, Hong Kong

Product Name: INTERLINING

Product End Use: Blouses

Color Name / Article Number:

Color Code: OFF-WHITE

H&M Order No.:

H&M Sample Type:Raw MaterialsAge Group:Child 0-3 year-oldH&M Sample Stage:D/S (Develop sample)

H&M Product Category: Knit

Date of Testing: July 28, 2020 – August 5, 2020

Number of Working Days: 7

Priority: REGULAR Speed Order: No

Speed Order: No. of sample provided: /
Fiber Composition: /
Care Instruction: /

SUMMARY OF TEST RESULTS

Seminiki di lesi keselis							
TEST REQUESTED	CONCLUSION	REMARK					
Alkylphenols (AP) Content Test	PASS						
Alkylphenol Ethoxylates (APEO) Content Test	PASS						
Formaldehyde Content Test	PASS						
Chlorophenols Content Test	PASS						
Ortho-phenylphenol (OPP) Content Test	PASS						
pH Value Test in Textile and Artificial Leather	FAIL						
Phthalates Content Test	PASS						

REMARK

If there are questions or concerns on this report, please contact:

(852) 2331 0330

hmEnquiry@hk.bureauveritas.com

BUREAU VERITAS HONG KONG LTD.

MS. YANN LO

MANAGER, ANALYTICAL

Bureau Veritas Hong Kong Ltd.
Consumer Product Services Division
Kowloon Bay Office
1/F, Pacific Trade Centre,
2 Kai Hing Road, Kowloon Bay,
Kowloon, Hong Kong
Telephone: (852) 2331 0888 Fax: (852) 2331 0889
www.cps.bureauveritas.com

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Photo of the Submitted Sample





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TEST RESULT

Alkylphenols (AP) Content Test

Test Method I : For Textile & Leather:

EN ISO 21084

Test Method II: For Polymers and other materials:

Organic solvent extraction, analysis with reference to EN ISO 21084.

Tested Item(s): I001 White fabric with transparent adhesive

Maximum Limit: 100 mg/kg (sum)

Tested Item(s)	Test	Result	Conclusion		
rested Item(s)	Method	Detected Analyte(s)	Conc.	Unit	Conclusion
I001	I	ND	ND	mg/kg	PASS

Note:

ND = Not detected ">" = More than Conc. = Concentration

 $ppm = part(s) \ per \ million = mg/kg \qquad mg/kg = milligram(s) \ per \ kilogram$

Reporting Limit (mg/kg): Sum (OP & NP): 10

Remark:

- The list of alkylphenols is summarized in table of Appendix.

Alkylphenol Ethoxylates (APEO) Content Test

Test Method I: For Textile and Other materials:

With reference to EN ISO 18254-1, analysis by Liquid Chromatograph Mass

Spectrometer (LC-MS)

Test Method II: For Leather:

With reference to EN ISO 18218-1 and EN ISO 18254-1

Tested Item(s): I001 White fabric with transparent adhesive

Maximum Limit:

Others: 100 mg/kg (Sum)
Recycled materials: 1000 mg/kg (Sum)

Tested Item(s)	Test	Result	Result				
resteu item(s)	Method	Detected Analyte(s)	Conc.	Unit	Conclusion		
I001	I	ND	ND	mg/kg	PASS		

Note:

ND = Not detected ">" = More than Conc. = Concentration

Reporting Limit (mg/kg) : Sum (OPEOs & NPEOs) : 20

Remark:

- The list of alkylphenol ethoxylates is summarized in table of Appendix.



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TEST RESULT

Formaldehyde Content Test

Test Method I : Textiles & Other Materials: EN ISO 14184-1

Test Method II : Leather: ISO 17226:2 and/or ISO 17226-1

Test Method III : Glue & 0-3 years old products: JIS L 1041: 2011 Method A

Test Method IV: Carpets and mats: GB 18587 Grade B.

Tested Item(s): I001 White fabric with transparent adhesive

	Type I	For baby < 36 months: 16 mg/kg						
Maximum Limit:	Type II	Others: 75 mg/kg						
	Type III	Carpets and mats: < 0.050 mg/m²/h						

Tested Item(s)	Type	Test Method	Result	Unit	Conclusion
I001	I	III	ND	mg/kg	PASS

Note:

ND = Not detected ">" = More than

 $\begin{array}{ll} ppm=part(s)\;per\;million=mg/kg & mg/kg=milligram(s)\;per\;kilogram \\ Reporting\;Limit:\;16\;mg/kg\;(Method\;I,\;II,\;III),\;0.050\;mg/m^2/h\;(Method\;IV) \end{array}$



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TEST RESULT

Chlorophenols Content Test

Test Method: With reference to ISO 17070:2015 or 64 LFBG B 82.02-08 (Modified). Potassium

hydroxide extraction, derivatisation and analysis by Gas Chromatograph Mass

Spectrometer (GC-MS).

Tested Item(s): I001 White fabric with transparent adhesive

Maximum Limit:	0.5 mg/kg (Each)				
Tooted Home(s)	Result	t	Complusion		
Tested Item(s)	Detected Analyte(s)	Conc.	Unit	Conclusion	
I001	ND	ND	mg/kg	PASS	

Note:

ND = Not detected ">" = More than

ppm = part(s) per million = mg/kg mg/kg = milligram(s) per kilogram

Reporting Limit (mg/kg): Each: 0.5

Remark:

- The list of chlorophenols is summarized in table of Appendix.

Ortho-phenylphenol (OPP) Test

Test Method : 1 M KOH extraction, 16 hours at 90 degrees C, derivatization and analysis

§ 64 LFGB B 82.02-08 or DIN EN ISO 17070:2015.

Tested Item(s): I001 White fabric with transparent adhesive

Maximum Limit:	1000 mg/kg		
Tested Item(s)	Result	Unit	Conclusion
I001	ND	mg/kg	PASS

Note:

ND = Not detected ">" = More than

Reporting Limit (mg/kg): 100



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TEST RESULT

pH Value Test in Textile and Artificial Leather

Test Method : ISO 3071, extraction with potassium chloride solution.

Tested Item(s) : I001 White fabric with transparent adhesive

Maximum Allowable Limit		pH 4.0- pH 7.5		
Parameter	Unit		Result	
Test Item(s)	-	I001	-	-
pH (Trial 1)	-	8.3	-	-
pH (Trial 2)	-	8.3	-	-
Mean of Trial 1 & 2	-	8.3	-	-
Conclusion	-	FAIL	-	-

Phthalates Content Test

Test Method I : Textile: CPSC-CH-C1001-09.4 and EN ISO 14389: 2014.

Test Method II Others: CPSC-CH-C1001-09.4, analysis by Gas Chromatograph Mass Spectrometer

(GC-MS).

Tested Item(s) I001 White fabric with transparent adhesive

Maximum Limit:	500 mg/kg (Each)
Maximum Limit:	1000 mg/kg (Sum)

Tested Item(s)	Test	Res	Conclusion		
resteu rtein(s)	method Detected Analyte(s)		Conc.	Unit	Conclusion
I001	I	ND	ND	mg/kg	PASS

Note:

">" = More than ND = Not detectedConc. = Concentration

ppm = part(s) per million = mg/kg mg/kg = milligram(s) per kilogram

Reporting Limit (mg/kg) : Each : 50

Remark:

The list of phthalates is summarized in table of Appendix.

END



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APPENDIX

List of Alkylphenols :						
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.	
1	Octylphenol (OP)	Various (140-66-9, 27193-28-8, 1806-26-4)	2	Nonylphenol (NP)	Various (25154-52-3, 104-40-5, 84852-15-3, 11066-49-2)	
	CAS-No. = Chemical Abstra	,	ber		11066	

List of Alkylphenol Ethoxylates :								
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.			
1	Octylphenolethoxylates (OPEOs)	Various (9002-93-1, 9036-19-5, 68987-90-6)	2	Nonylphenolethoxylates (NPEOs)	Various (9016-45-9, 26027-38-3, 127087-87-0, 37205-87-1, 68412-54-4)			
	CAS-No. = Chemical Abstracts Service registry number							

No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	Pentachlorophenol (PCP) and its salts and esters	87-86-5	3	Trichlorophenol (TriCP) and its salts and esters: 2,3,5- Trichlorophenol; 2,3,6- Trichlorophenol & 2,4,5- Trichlorophenol; 2,4,6- Trichlorophenol; 3,4,5- Trichlorophenol & 2,3,4- Trichlorophenol	933-78-8; 933-75-5 & 95-95-4; 88-06-2; 609-19-8 & 15950-66-0
2	Tetrachlorophenol (TeCP) and its salts and esters: 2,3,5,6- Tetrachlorophenol 2,3,4,6- Tetrachlorophenol 2,3,4.5- Tetrachlorophenol	935-95-5 58-90-2 4901-51-3	-	-	-



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APPENDIX

List of Phthalates :							
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.		
1	Butyl benzyl phthalate (BBP)	85-68-7	12	Di-iso-pentyl phthalate (DIPP)	605-50-5		
2	Dibutyl phthalate (DBP)	84-74-2	13	n-Pentyl-iso-pentyl phthalate (NPIPP)	776297-69-9		
3	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	14	Di-cyclohexyl phthalate (DCHP)	84-61-7		
4	Di-iso-butyl phthalate (DIBP)	84-69-5	15	Di-iso-octyl phthalate (DIOP)	27554-26-3		
5	Di-n-octyl phthalate (DNOP)	117-84-0	16	Di-n-pentyl phthalate (DPP)	131-18-0		
6	Di-iso-nonyl phthalate (DINP)	28553-12-0	17	Dihexyl phthalate, branched and linear	68515-50-4		
7	Di-iso-decyl phthalate (DIDP)	26761-40-0	18	Dimethyl phthalate (DMP)	131-11-3		
8	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	19	1,2-benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0		
9	Di-n-hexyl phthalate (DHP)	84-75-3	20	1,2-benzenedicarboxylic acid, di- C7-11-branched and linear, alkyl esters (DHUNP)	68515-42-4		
10	Diethyl phthalate (DEP)	84-66-2	21	1,2-benzenedicarboxylic acid, di- C6-8-branched alkyl esters, C7- rich (DIHP)	71888-89-6		
11	Di-n-propyl phthalate (DPRP)	131-16-8	22	1,2-Benzenedicarboxylic acid, di- C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate; 1,2- Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters; 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5 68648-93-1		