



Test Report

No. BR2400213 Rev. 0

Date: Barueri, 13 Feb 2024

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HL INOVACOES EM TECIDOS E DUBLAGENS LTDA

R SAO MARCOS

900

CAMPO BOM, RS 93700000

BRAZIL

The following sample(s) was/were submitted and identified on behalf of the buyer as: TECIDO SJ200 C/ANTIMICROBIAL C/ ANTIBACTERICIDA; TECIDO SJ200 C/ANTIMICROBIAL C/ ANTIBACTERICIDA - ALVEJADA; TECIDO SJ200 C/ANTIMICROBIAL C/ ANTIBACTERICIDA - CRU; TECIDO SJ200 C/ANTIMICROBIAL C/ ANTIBACTERICIDA - PRETA

SGS Order No. :	400000013238
Total of Sample :	03 SAMPLES
Sample Number :	BR2400213.001
Component No. :	1
Sample Description :	TECIDO SJ200 C/ANTIMICROBIAL C/ ANTIBACTERICIDA
Material Name :	TECIDO
Colour :	ALVEJADA / CRU / PRETA
Remark :	N/A
Test Product :	Natural fibers
Mix :	YES
Colors :	BLEACHED / RAW / BLACK
Sample composed of fibers of plant origin :	YES
Sample contains PVC or recycled material in the composition :	NO
water repellent material :	NO
Sample covered with paints or varnishes :	NO
Sample based on PU :	NO
Colorful material :	YES
Original fibers animal (wool) :	NO
Laminated material with synthetic fiber base :	NO
PRODUCTION - Official report for Brand test (Product/Packaging/Retest) :	YES
DEVELOPMENT - Unofficial Report for Brand. Samples in Development for Testing (Individual) :	NO
Sample Number :	BR2400213.002
Component No. :	2
Sample Description :	TECIDO SJ200 C/ANTIMICROBIAL C/ ANTIBACTERICIDA
Material Name :	TECIDO
Colour :	ALVEJADA
Remark :	N/A
Sample Number :	BR2400213.003

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Component No. : 3
 Sample Description : TECIDO SJ200 C/ANTIMICROBIAL C/ ANTIBACTERICIDA
 Material Name : TECIDO
 Colour : CRU
 Remark : N/A
 Sample Number : BR2400213.004
 Component No. : 4
 Sample Description : TECIDO SJ200 C/ANTIMICROBIAL C/ ANTIBACTERICIDA
 Material Name : TECIDO
 Colour : PRETA
 Remark : N/A

The informations above was provided by or on behalf of the customer.

Proposal Number : C&P PR24-1596924 REV00
 Sample Receiving Date : 26 Jan 2024
 Test Performing Period : 26 Jan 2024 - 09 Feb 2024
 Test Requested : Selected test(s) as requested by client.
 Test Part Description : Please refer to next page(s).
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).
 Technical Responsibility : Alessandra Shimizu - Laboratory Manager CRQ 04245592

Component Lis/List of Materials :

Sample No.	Component No.	Description	Material	Colour	Remark
BR2400213.001	1	TECIDO SJ200 C/ANTIMICROBIAL C/ ANTIBACTERICIDA	TECIDO	ALVEJADA / CRU / PRETA	N/A
BR2400213.002	2	TECIDO SJ200 C/ANTIMICROBIAL C/ ANTIBACTERICIDA - ALVEJADA	TECIDO	ALVEJADA	N/A
BR2400213.003	3	TECIDO SJ200 C/ANTIMICROBIAL C/ ANTIBACTERICIDA - CRU	TECIDO	CRU	N/A
BR2400213.004	4	TECIDO SJ200 C/ANTIMICROBIAL C/ ANTIBACTERICIDA - PRETA	TECIDO	PRETA	N/A

Summary of Test Result:

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Test Parameter	Test Method	Conclusion
pH Value	With reference to BS ISO 3071:2020.	PASS
Extractable Heavy Metal	DIN EN 16711-2:2016, Analysis was conducted by ICP-MS	PASS
Total Heavy Metals	DIN EN 16711-1:2016, Analysis was conducted by ICP-MS	PASS
Non-Metal Products	With reference to CPSC-CH-E1002-08.3; analysis was performed by ICP-OES.	PASS
Nonylphenol (NP) and Octylphenol (OP)	Sample preparation by solvent extraction (EN ISO 21084: 2019), analysis performed by GC-MS.	PASS
Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs)	Sample preparation by solvent extraction (EN ISO 18254/16), analysis performed by LC-MS.	PASS
AZO Dyes	With reference to EN ISO 14362-1:2017 & EN ISO 14362-3: 2017, analysis was performed with GC-MS/LC-DAD.	PASS
Formaldehyde	With reference to ISO 14184-1: 2011; analysis was performed by UV-Vis.	PASS
Organotin Compounds	With reference to ISO 16179:2012, analysis was performed by GC-MS	PASS
Quinoline	DIN 54231:2005, Analysis was conducted by LCMS/DAD	PASS

Sample Photo :



SGS authenticate the photo on original report only

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Signed for and on behalf of
SGS do Brasil Ltda.

Alessandra Shimizu
Laboratory Manager CRQ 04245592

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Test Results :

Nonylphenol (NP) and Octylphenol (OP)

Test Method : Sample preparation by solvent extraction (EN ISO 21084: 2019), analysis performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Client</u> <u>Requeriment</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> <u>001</u>
Nonylphenol (NP)	25154-52-3	-	10.00	mg/kg	ND
Octylphenol (OP)	27193-28-8	-	10.00	mg/kg	ND
Sum of NP and OP (AP)		Max. 10.00	10.00	mg/kg	ND
Conclusion					PASS

Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs)

Test Method : Sample preparation by solvent extraction (EN ISO 18254/16), analysis performed by LC-MS.

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Client</u> <u>Requeriment</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> <u>001</u>
Nonylphenol ethoxylates (NPEO)	9016-45-9	-	20.00	mg/kg	ND
Octylphenol ethoxylates (OPEO)	9002-93-1	-	20.00	mg/kg	ND
Sum of (NP,OP, NPEO and OPEO)		Max. 100.00	20.00	mg/kg	ND
Conclusion					PASS

AZO Dyes

Test Method : With reference to EN ISO 14362-1:2017 & EN ISO 14362-3: 2017, analysis was performed with GC-MS/LC-DAD.

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Client</u> <u>Requeriment</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> <u>001</u>
4-Aminobiphenyl	92-67-1	Max. 20.0	5.0	mg/kg	ND
Benzidine	92-87-5	Max. 20.0	5.0	mg/kg	ND
4-chloro-o-toluidine	95-69-2	Max. 20.0	5.0	mg/kg	ND
2-naphthylamine	91-59-8	Max. 20.0	5.0	mg/kg	ND
o-aminoazotoluene	97-56-3	Max. 20.0	5.0	mg/kg	ND
2-amino-4-nitrotoluene	99-55-8	Max. 20.0	5.0	mg/kg	ND
4-chloroaniline	106-47-8	Max. 20.0	5.0	mg/kg	ND
2,4-diamino-anisole	615-05-4	Max. 20.0	5.0	mg/kg	ND
4,4'-diaminodiphenylmethane	101-77-9	Max. 20.0	5.0	mg/kg	ND
3,3'-dichlorobenzidine	91-94-1	Max. 20.0	5.0	mg/kg	ND
3,3'-dimethoxybenzidine	119-90-4	Max. 20.0	5.0	mg/kg	ND
3,3'-dimethylbenzidine	119-93-7	Max. 20.0	5.0	mg/kg	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	Max. 20.0	5.0	mg/kg	ND

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<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Client</u>			<u>Result</u>
		<u>Requeriment</u>	<u>RL</u>	<u>Unit</u>	
p-cresidine	120-71-8	Max. 20.0	5.0	mg/kg	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	Max. 20.0	5.0	mg/kg	ND
4,4'-oxydianiline	101-80-4	Max. 20.0	5.0	mg/kg	ND
4,4'-thiodianiline	139-65-1	Max. 20.0	5.0	mg/kg	ND
o-toluidine	95-53-4	Max. 20.0	5.0	mg/kg	ND
2,4-Toluylendiamine	95-80-7	Max. 20.0	5.0	mg/kg	ND
2,4,5-trimethylaniline	137-17-7	Max. 20.0	5.0	mg/kg	ND
4-aminoazobenzene	60-09-3	Max. 20.0	5.0	mg/kg	ND
O-Anisidine	90-04-0	Max. 20.0	5.0	mg/kg	ND
2,4-Xylidine	95-68-1	Max. 20.0	5.0	mg/kg	ND
2,6-Xylidine	87-62-7	Max. 20.0	5.0	mg/kg	ND
4-Chloro-o-toluidinium chloride	3165-93-3	Max. 20.0	5.0	mg/kg	ND
2-Naphthylammoniumacetate	553-00-4	Max. 20.0	5.0	mg/kg	ND
4-Methoxy-m-phenylene diammonium sulphate	39156-41-7	Max. 20.0	5.0	mg/kg	ND
2,4,5-Trimethylamine hydrochloride	21436-97-5	Max. 20.0	5.0	mg/kg	ND

Conclusion

PASS

Notes: Results over 1/2 or 1/3 of test requirement indicate a possibility of failure on one or more components. Retesting on individual component is recommended to determine the compliance of each component to the requirement.

4-Aminodiphenyl CAS 92-67-1, 2-Naphtylamine CAS 91-59-8 and 4-Methoxy-m-phenylene-diamine CAS 615-05-4 can be indirectly generated from some colorants which do not contain these amines azo bound. 4,4'-methylene-dianiline CAS 101-77-9 and 2,4-toluylen-diamine CAS 95-80-7 may be released from polyurethane or chemical fixing agent. The use of banned azo colorants cannot be reliably ascertained without additional information.

The ISO 14362-1:2017 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not detected by mentioned test method, test result for 4-aminoazobenzene CAS 60-09-3 is considered as 'not detected'. Otherwise, the test method of ISO 14362-3:2017 will be employed to verify the presence of 4-aminoazobenzene.

Formaldehyde

Test Method : With reference to ISO 14184-1: 2011; analysis was performed by UV-Vis.

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Client</u>			<u>Result</u>
		<u>Requeriment</u>	<u>RL</u>	<u>Unit</u>	
Formaldehyde	50-00-0	Max. 16.00	16.00	mg/kg	ND

Conclusion

PASS

pH Value

Test Method : With reference to BS ISO 3071:2020.

<u>Test Item(s)</u>	<u>Client</u>			<u>Result</u>
	<u>Requeriment</u>	<u>RL</u>	<u>Unit</u>	
pH Value of Aqueous Extract	4.00 - 7.50	-	-	5.45

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<u>Test Item(s)</u>	<u>Client Requeriment</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u>
Conclusion				PASS

<u>Test Item(s)</u>	<u>Client Requeriment</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u>
pH Value of Aqueous Extract	4.00 - 7.50	-	-	6.98
Conclusion				PASS

<u>Test Item(s)</u>	<u>Client Requeriment</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u>
pH Value of Aqueous Extract	4.00 - 7.50	-	-	7.48
Conclusion				PASS

Extractable Heavy Metal

Test Method : DIN EN 16711-2:2016, Analysis was conducted by ICP-MS

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Client Requeriment</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u>
Antimony (Sb)	7440-36-0	Max. 30.000	3.000	mg/kg	ND
Arsenic (As)	7440-38-2	Max. 0.200	0.100	mg/kg	ND
Barium (Ba)	7440-39-3	Max. 1000.000	100.00	mg/kg	ND
			0		
Cadmium (Cd)	7440-43-9	Max. 0.100	0.050	mg/kg	ND
Chromium (Cr)	7440-47-3	Max. 1.000	0.500	mg/kg	ND
Cobalt (Co)	7440-48-4	Max. 1.000	0.500	mg/kg	ND
Copper (Cu)	7440-50-8	Max. 25.000	5.000	mg/kg	ND
Lead (Pb)	7439-92-1	Max. 0.200	0.100	mg/kg	ND
Mercury (Hg)	7439-97-6	Max. 0.020	0.020	mg/kg	ND
Selenium (Se)	7782-49-2	Max. 500.000	50.000	mg/kg	ND
Conclusion					PASS

Organotin Compounds

Test Method : With reference to ISO 16179:2012, analysis was performed by GC-MS

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Client Requeriment</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u>
Dibutyl tin (DBT)	1002-53-5	Max. 1.00	0.10	mg/kg	ND
Diocetyl tin (DOT)	15231-44-4	Max. 1.00	0.10	mg/kg	ND
Monobutyl tin (MBT)	78763-54-9	Max. 1.00	0.10	mg/kg	ND
Tricyclohexyl tin (TCyHT)	892-20-6	Max. 1.00	0.10	mg/kg	ND

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<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Client</u> <u>Requeriment</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> <u>001</u>
Trimethyltin (TMT)		Max. 1.00	0.10	mg/kg	ND
Trioctyltin (TOT)	869-59-0	Max. 1.00	0.10	mg/kg	ND
Tripropyltin (TPT)		Max. 1.00	0.10	mg/kg	ND
Tributyl tin (TBT)	688-73-3	Max. 0.10	0.10	mg/kg	ND
Triphenyl tin (TPHT)	892-20-6	Max. 0.50	0.10	mg/kg	ND

Conclusion

PASS

Quinoline

Test Method : DIN 54231:2005, Analysis was conducted by LCMS/DAD

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Client</u> <u>Requeriment</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> <u>001</u>
Quinoline	91-22-6	Max. 50	10	mg/kg	ND

Conclusion

PASS

Total Heavy Metals

Test Method : DIN EN 16711-1:2016, Analysis was conducted by ICP-MS

<u>Test Item(s)</u>	<u>CAS-NO.</u>	<u>Client</u> <u>Requeriment</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> <u>001</u>
Arsenic (As)	7440-38-2	Max. 100.00	10.00	mg/kg	ND
Cadmium (Cd)	7440-43-9	Max. 40.00	5.00	mg/kg	ND
Mercury (Hg)	7439-97-6	Max. 0.50	0.10	mg/kg	ND

Conclusion

PASS

Non-Metal Products

Test Method : With reference to CPSC-CH-E1002-08.3; analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Client</u> <u>Requeriment</u>	<u>RL</u>	<u>Unit</u>	<u>Result</u> <u>001</u>
Lead (Pb)	Max. 40.00	10.00	mg/kg	ND

Conclusion

PASS

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Remarks :

- (1) RL = Reporting Limit
- (2) ND = Not Detected (< RL)
- (3) "-" = Not Analyzed / Not Applicable
- (4) "--" = Analysis in Process
- (5) 1 mg/kg = 0.0001%
- (6) mg/kg = ppm

Comments :

The reported results refer only to the samples submitted to the tests. SGS is not responsible for information regarding the composition of the sample and its manufacturing data. These are the sole responsibility of the customer and are not part of the service scope of SGS do Brasil LTDA.

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The Decision Rule defined by SGS states that the uncertainty of measurement will not be considered in the Verdict (declaration of conformity) when indicated in the test report.

WARNING: The opinions and interpretations expressed below are based on the results obtained from the item tested, applicable only to the tests where the specification parameters are included in this report.

*** End of Report ***

The assay were conducted in the laboratory in Brazil, located at the address cited at the bottom of this report.