



Test Report

No.: GZHL1908032729IP

Date: Aug 12, 2019

Page 1 of 9

HUGS AND THINGS
VROEGE VAN TOL 31, 6851VR HUISSEN, THE NETHERLANDS

Sample Description : POLYESTER CORD
Manufacturer :
Supplier :
Country of Origin : CHINA
Country of Destination : THE NETHERLANDS

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. : CAN19-154444
Sample Receiving Date : Aug 06, 2019
Test Performing Date : Aug 06, 2019 to Aug 12, 2019
Test Performed : Selected test(s) as requested by applicant
Test Result(s) : For further details, please refer to the following page(s)

Test Requested	Result
To determine Migration of Certain Elements in the selected parts on the submitted sample(s) with reference to EN 71-3:2013+A3:2018.	PASS
Annex I of European Regulation POPs (EU) 2019/1021 - Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	PASS
Determination of Azodyes in the submitted sample(s) with reference to the Entry 43 of Commission Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2002/61/EC).	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Yan Lau
Authorized Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch (Testing Center: Huisen)

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Test Report

No.: GZHL1908032729IP

Date: Aug 12, 2019

Page 2 of 9

Test Results :

Test Part Description :

SGS Sample ID	Description
CAN19-154444.001	White fabric rope
CAN19-154444.002	Black fabric rope
CAN19-154444.003	Gray fabric rope
CAN19-154444.004	Beige fabric rope
CAN19-154444.005	Green fabric rope
CAN19-154444.006	Pink fabric rope

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

EN 71-3:2013+A3:2018-Migration of Certain Elements (Category III: Scrapped-off toy material)

Test Method : With reference to EN 71-3:2013+A3:2018. Analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	001	002	003
Soluble Aluminum(Al)	70000	mg/kg	50	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Chromium (III) (Cr (III))	460	mg/kg	5	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	10	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND



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Test Report

No.: GZHL1908032729IP

Date: Aug 12, 2019

Page 3 of 9

Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	4.9	ND	ND	ND
Soluble Organic Tin	12	mg/kg	-	ND	ND	ND
Soluble Chromium (VI) (Cr (VI))	0.2	mg/kg	0.18	ND	ND	ND
Comment				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Soluble Aluminum(Al)	70000	mg/kg	50	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Chromium (III) (Cr (III))	460	mg/kg	5	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	10	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	4.9	ND	ND	ND
Soluble Organic Tin	12	mg/kg	-	ND	ND	ND
Soluble Chromium (VI) (Cr (VI))	0.2	mg/kg	0.18	ND	ND	ND
Comment				PASS	PASS	PASS

Notes :

- 1.Soluble Chromium (III)= Soluble Total Chromium- Soluble Chromium (VI)
2. Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN 71-3:2013+A3:2018.
3. Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2013+A3:2018.



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Test Report

No.: GZHL1908032729IP

Date: Aug 12, 2019

Page 4 of 9

POP Chlorinated Paraffins

Test Method : SGS In-House method - GZTC-R&D-TOP-318, Analyzed by Gas Chromatography - Mass Spectrometry (GC-MS), Gas Chromatography - Electro Capture Detector (GC-ECD), High Performance Liquid Chromatography - Diode Array Detector - Mass Spectrometry (HPLC-DAD-MS)

Test Item(s)	CAS NO.	Limit	Unit	MDL	001
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) I287-476-5	85535-84-8 and others	1500	mg/kg	50	ND
Comment					PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	002
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) I287-476-5	85535-84-8 and others	1500	mg/kg	50	ND
Comment					PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	003
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) I287-476-5	85535-84-8 and others	1500	mg/kg	50	ND
Comment					PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	004
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) I287-476-5	85535-84-8 and others	1500	mg/kg	50	ND
Comment					PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	005
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) I287-476-5	85535-84-8 and others	1500	mg/kg	50	ND
Comment					PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	006
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) I287-476-5	85535-84-8 and others	1500	mg/kg	50	ND
Comment					PASS



SGS-CTC (Shanghai) Technical Services Co., Ltd.
Guangzhou Branch Testing Center Paraffins

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Azo Dyes

Test Method : With reference to EN 14362-1 :2012 - Analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001	002	003
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND	ND
Benidine	92-87-5	30	mg/kg	5	ND	ND	ND
4-chloro-o-toluidine	95-69-2	30	mg/kg	5	ND	ND	ND
2-naphthylamine	91-59-8	30	mg/kg	5	ND	ND	ND
o-aminoazotoluene	97-56-3	30	mg/kg	5	ND	ND	ND
5-nitro-o-toluidine /	99-55-8	30	mg/kg	5	ND	ND	ND
2-Amino-4-nitrotoluene							
4-chloroaniline	106-47-8	30	mg/kg	5	ND	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	30	mg/kg	5	ND	ND	ND
/ 2,4-Diaminoanisole							
4,4'-diaminodiphenylmethane	101-77-9	30	mg/kg	5	ND	ND	ND
3,3'-dichlorobenzidine	91-94-1	30	mg/kg	5	ND	ND	ND
3,3'-dimethoxybenzidine	119-90-4	30	mg/kg	5	ND	ND	ND
3,3'-dimethylbenzidine	119-93-7	30	mg/kg	5	ND	ND	ND
3,3'-Dimethyl-4,4'-diaminodiphe	838-88-0	30	mg/kg	5	ND	ND	ND
nylmethane /							
4,4'-methylenedi-o-toluidine							
p-cresidine	120-71-8	30	mg/kg	5	ND	ND	ND
4,4'-methylene-bis-	101-14-4	30	mg/kg	5	ND	ND	ND
(2-chloroaniline)							
4,4'-oxydianiline	101-80-4	30	mg/kg	5	ND	ND	ND
4,4'-thiodianiline	139-65-1	30	mg/kg	5	ND	ND	ND
o-toluidine	95-53-4	30	mg/kg	5	ND	ND	ND
4-methyl-m-phenylenediamine /	95-80-7	30	mg/kg	5	ND	ND	ND
2,4-Toluyldiamine							
2,4,5-trimethylaniline	137-17-7	30	mg/kg	5	ND	ND	ND
4-aminoazobenzene	60-09-3	30	mg/kg	5	ND	ND	ND
O-Anisidine	90-04-0	30	mg/kg	5	ND	ND	ND
Comment					PASS	PASS	PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	004	005	006
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND	ND
Benidine	92-87-5	30	mg/kg	5	ND	ND	ND
4-chloro-o-toluidine	95-69-2	30	mg/kg	5	ND	ND	ND
2-naphthylamine	91-59-8	30	mg/kg	5	ND	ND	ND
o-aminoazotoluene	97-56-3	30	mg/kg	5	ND	ND	ND
5-nitro-o-toluidine /	99-55-8	30	mg/kg	5	ND	ND	ND



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Test Report

No.: GZHL1908032729IP

Date: Aug 12, 2019

Page 6 of 9

2-Amino-4-nitrotoluene								
4-chloroaniline	106-47-8	30	mg/kg	5	ND	ND	ND	
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	30	mg/kg	5	ND	ND	ND	
4,4'-diaminodiphenylmethane	101-77-9	30	mg/kg	5	ND	ND	ND	
3,3'-dichlorobenzidine	91-94-1	30	mg/kg	5	ND	ND	ND	
3,3'-dimethoxybenzidine	119-90-4	30	mg/kg	5	ND	ND	ND	
3,3'-dimethylbenzidine	119-93-7	30	mg/kg	5	ND	ND	ND	
3,3'-Dimethyl-4,4'-diaminodiphenylmethane / 4,4'-methylenedi-o-toluidine	838-88-0	30	mg/kg	5	ND	ND	ND	
p-cresidine	120-71-8	30	mg/kg	5	ND	ND	ND	
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	30	mg/kg	5	ND	ND	ND	
4,4'-oxydianiline	101-80-4	30	mg/kg	5	ND	ND	ND	
4,4'-thiodianiline	139-65-1	30	mg/kg	5	ND	ND	ND	
o-toluidine	95-53-4	30	mg/kg	5	ND	ND	ND	
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine	95-80-7	30	mg/kg	5	ND	ND	ND	
2,4,5-trimethylaniline	137-17-7	30	mg/kg	5	ND	ND	ND	
4-aminoazobenzene	60-09-3	30	mg/kg	5	ND	ND	ND	
O-Anisidine	90-04-0	30	mg/kg	5	ND	ND	ND	
Comment					PASS	PASS	PASS	

Notes :

- (1) Test specimen was taken randomly from the sample submitted by client/applicant.
- (2) Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.
- (3) In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.
- (4) In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

Requirement : ≤ 30 mg/kg for each aromatic amine according to Requirement of Entry 43 of Regulation (EC) No. 552/2009 amending Annex XVII of REACH Regulation (EC) No. 1907/2006 (previously restricted under Directive 2002/61/EC).



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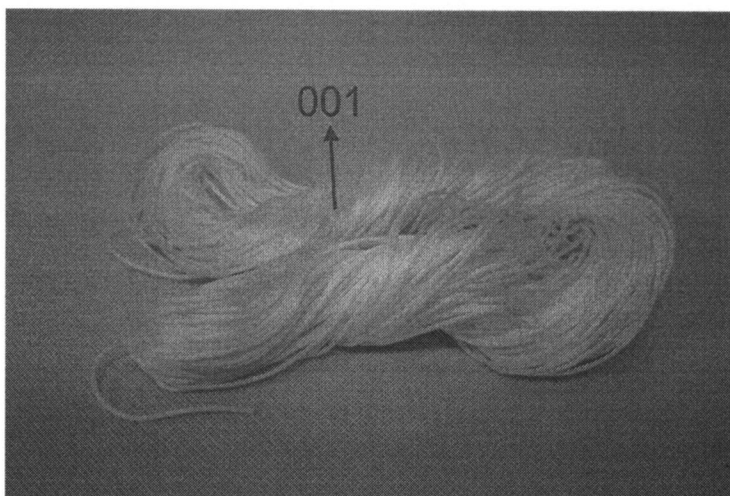
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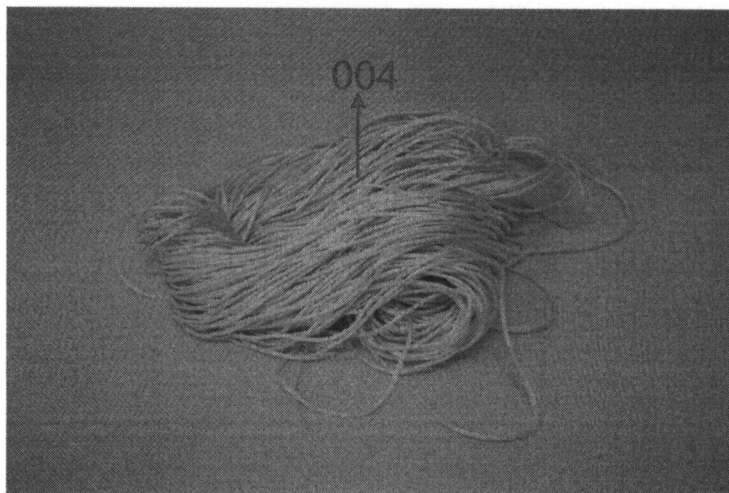
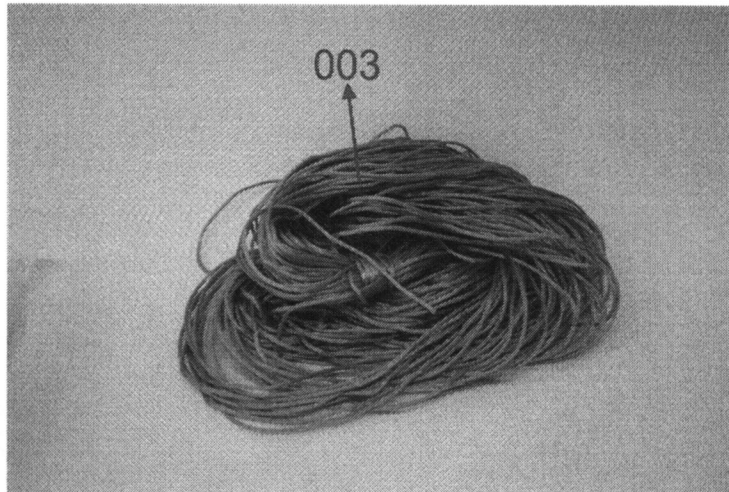


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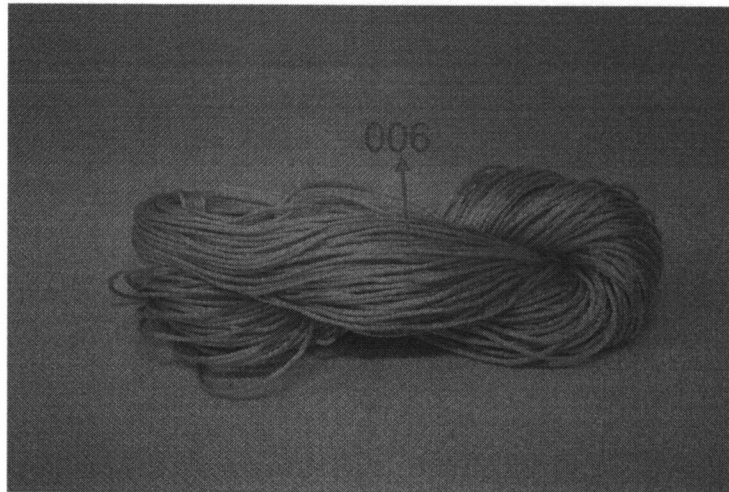
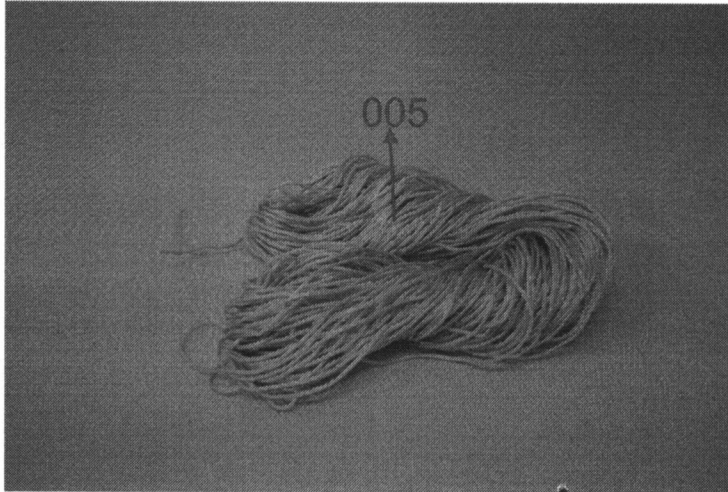


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198 Kexu Road, Science Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075191 www.sgs.com
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075191 e sgs.china@sgs.com



End of Report



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