

Test Report

Number: SHAH0163038301

Applicant: DXRACER TECHNOLOGY WUXI CO.,LTD
17TH FLOOR BUILDING C UNIT 2, NO.108
HUISHAN AVENUE, HUISHAN DISTRICT, WUXI
CITY, JIANGSU PROVINCE
Attn: LILY WU

Date: 14 Nov, 2023

Sample Description:

One(1) piece of submitted sample said to be :
Item Name : microfiber synthetic leather.
Country Of Origin : China.

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Prepared And Checked By:
For Intertek Testing Services Wuxi Ltd.



Bill Zhang
General Manager



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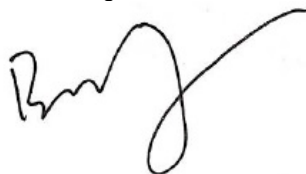
Conclusion:

<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Submitted Sample	Azocolourants content requirement In Annex XVII Item 43 of the REACH Regulation (EC) No. 1907/2006 & Amendment (EC) No. 552/2009 and (EU) 2020/2096	See Comment
Submitted Sample	Lead content requirement in Commission Regulation (EU) 2015/628 of 22 April 2015 Amending Annex XVII item 63 of the REACH Regulation (EC) No. 1907/2006	Pass
Submitted Sample	Dimethyl Fumarate (DMFu) content requirement in Annex XVII Entry 61 of the REACH Regulation (EC) No 1907/2006 and Amendment (EU) No 412/2012	Pass
Submitted Sample	N,N-dimethylformamide (DMF) content requirement in Annex XVII Entry 76 the REACH Regulation (EC) No 1907/2006 and Amendment (EU) 2021/2030	Pass
Submitted Sample	C9-C14 PFCAs, their Salts and C9-C14 PFCAs- related substances content requirement in Annex XVII Entry 68 of the REACH Regulation (EC) No 1907/2006 and Amendment (EU) 2021/1297	Pass
Submitted Sample	Chromium (VI) (Cr(VI)) content requirement in Annex XVII item 47 of the REACH Regulation (EC) No.1907/2006 & Amendent (EU) No. 301/2014	Pass
Submitted Sample	Polycyclic Aromatic Hydrocarbons (PAHs) content in Annex XVII Item 50 of the REACH Regulation (EC) No. 1907/2006 & amendment (EU) No. 1272/2013	Pass
Submitted Sample	Phthalates content requirement in Annex XVII Item 51&52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 (formerly known as Directive 2005/84/EC)	Pass
Submitted Sample	Organotin content requirement in Annex XVII item 20 of the Reach regulation (EC) No.1907/2006 & amendent (EU) No.276/2010	Pass
Submitted Sample	Regulation (EU) No 2019/1021 on Persistent Organic Pollutants (POPs) and Amendment (EU) 2021/277 for Pentachlorophenol (PCP) content	Pass
Submitted Sample	Short-Chain Chlorinated Paraffins (C10~C13)(SCCPs) requirement in Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs)	Pass

Comment:

The testing scope of the standard was not applicable to the submitted sample(s). However, the test result(s) of the sample met the requirement as stated in this report.

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Tests Conducted

- Detection of Amines Derived from Azocolourants and Azodyes:

By Gas Chromatographic - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis.

Test Method: With reference to EN ISO 14362-1: 2017

	<u>Forbidden</u>	<u>Cas No.</u>	<u>Result (ppm)</u>	
			<u>Method T</u>	<u>Method D</u>
1.	4-Aminodiphenyl	92-67-1	N	N
2.	Benzidine	92-87-5	N	N
3.	4-Chloro-o-Toluidine	95-69-2	N	N
4.	2-Naphthylamine	91-59-8	N	N
5.	o-Aminoazotoluene	97-56-3	N	N
6.	2-Amino-4-Nitrotoluene	99-55-8	N	N
7.	p-Chloroaniline	106-47-8	N	N
8.	2,4-Diaminoanisole	615-05-4	N	N
9.	4,4'-Diaminodiphenylmethane	101-77-9	N	N
10.	3,3'-Dichlorobenzidine	91-94-1	N	N
11.	3,3'-Dimethoxybenzidine	119-90-4	N	N
12.	3,3'-Dimethylbenzidine	119-93-7	N	N
13.	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N
14.	p-Cresidine	120-71-8	N	N
15.	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	N	N
16.	4,4'-Oxydianiline	101-80-4	N	N
17.	4,4'-Thiodianiline	139-65-1	N	N
18.	o-Toluidine	95-53-4	N	N
19.	2,4-Toluylenediamine	95-80-7	N	N
20.	2,4,5-Trimethylaniline	137-17-7	N	N
21.	o-Anisidine	90-04-0	N	N
22.	p-Aminoazobenzene	60-09-3	N	N

Remark: N = Not Detected
 Detection Limit = 5 ppm
 Requirement = 30 ppm (Max.)
 ppm = parts per million = mg/kg

Method T: Direct buffer extraction as per EN ISO 14362-1: 2017 Section 10.2

Method D: Colourant extraction with Xylene as per EN ISO 14362-1: 2017 Section 10.1

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2 Lead (Pb) Content

With reference to method IEC 62321-5:2013, microwave digestion method was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Result (%)</u>	<u>Limit (%)</u>
0.0033	0.05

Remark: ND = Not Detected (Less than detection limit)
Detection Limit = 0.001%

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3 Dimethyl Fumarate (DMFu) Content

With reference to PD CEN ISO/TS 16186: 2012, by solvent extraction, and followed by Gas Chromatography Mass Spectrometry (GC-MS) analysis.

<u>Test Item</u>	<u>Result (mg/kg)</u>	<u>Reporting Limit (mg/kg)</u>	<u>Limit (mg/kg)</u>
Dimethyl Fumarate (DMFu)	ND	0.05	0.1

The limit was quoted according to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EU) No 412/2012, Annex XVII Entry 61 on Dimethyl Fumarate (DMFu) content.

Remark: ND = Not Detected (less than reporting limit)

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Tests Conducted

4 N,N-dimethylformamide Content

By solvent extraction, followed by Gas Chromatographic – Mass Spectrometric (GC-MS) analysis.

Test Item	Result (% w/w)	Reporting Limit (% w/w)	Requirement (% w/w)
	N,N-dimethylformamide	0.0341	0.0005

The above limit was quoted according to Annex XVII Item 76 of the REACH Regulation (EC) No. 1907/2006 & Amendment (EU) 2021/2030 for N,N-dimethylformamide(DMF) content.

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5 C9-C14 PFCAs and Their Salts and C9-C14 PFCAs-Related Substances Content

With reference to CEN/TS 15968, by solvent extraction and followed by Liquid Chromatographic / Tandem Mass Spectrometer (LC/MS/MS) analysis.

Test Item	Result (µg/kg)	Reporting Limit (µg/kg)	Limit (µg/kg)
	C9-C14 PFCAs and their salts #	ND	10
C9-C14 PFCA-related substance ##	ND	100	260

The limit was quoted according to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EU) 2021/1297, Annex XVII Entry 68 on selected C9-C14 PFCAs, their salts and C9-C14 PFCA-related substances.

Remark: ND = Not detected (less than reporting limit)
ppb = parts per billion= µg/kg

= The reported value was calculated by summation of the values of Perfluorononan-1-oic acid (PFNA, C9-PFCA) (CAS No. 375-95-1) and salts, Nonadecafluorodecanoic acid (PFDA, C10-PFCA) (CAS No. 335-76-2) and salts, Henicosfluoroundecanoic acid (PFUnDA, C11-PFCA) (CAS No. 2058-94-8) and salts, Tricosfluorododecanoic acid (PFDoDA, C12-PFCA) (CAS No. 307-55-1) and salts, Pentacosfluorotridecanoic acid (PFTrDA, C13-PFCA) (CAS No. 72629-94-8) and salts, Heptacosfluorotetradecanoic acid (PFTDA, C14-PFCA) (CAS No. 376-06-7) and salts and Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA) (CAS No. 172155-07-6) and salts. Other C9-C14 PFCAs and their salts may be also present in sample.

= The reported value was calculated by summation of the values of 1H,1H,2H,2H-Perfluorododecyl acrylate (10:2 FTA) (CAS No. 17741-60-5), 1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA) (CAS No. 2144-54-9), 1H,1H,2H,2H-Perfluorododecanol (10:2 FTOH) (CAS No. 865-86-1), 2H,2H,3H,3H-Perfluoroundecanoic acid (H4PFUnA) (CAS No. 34598-33-9), Perfluorocyclohexanol 8:2 (8:2 FTOH) (CAS No. 678-39-7), 1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH) (CAS No. 39239-77-5), 1H,1H,2H,2H-Perfluorododecanesulphonic acid (10:2 FTS) (CAS No. 120226-60-0), 1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI) (CAS No. 2043-54-1) and 1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI) (CAS No. 30046-31-2). Other C9-C14 PFCA-related substances may be also present in sample.

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6 Chromium (VI) (Cr(VI)) Content

With reference to EN ISO 17075-1:2017, Chromium(VI) content was determined by UV-Visible Spectrophotometer(UV-Vis) analysis.

<u>Result (mg/kg)</u>	<u>Limit (mg/kg) (Max.)</u>
ND	3

Remark: ND = Not Detected
Detection Limit = 3.0 mg/kg

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7 Polycyclic Aromatic Hydrocarbons (PAHs) Content

With reference to AfPS GS 2019:01 PAK, by solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Toy for children/children care articles / Other articles (Non-Toy for children/Non-children care articles):

<u>Test Item</u>	<u>Result (mg/kg)</u>	<u>Requirement (mg/kg)</u> <u>(Max.)</u>
Benzo(a)pyrene	ND	1
Benzo(e)pyrene	ND	1
Benzo(a)anthracene	ND	1
Chrysene	ND	1
Benzo(b)fluoranthene	ND	1
Benzo(j)fluoranthene	ND	1
Benzo(k)fluoranthene	ND	1
Dibenzo(a,h)anthracene	ND	1

Remark : The above limit was quoted according to Annex XVII Items 50 of the REACH Regulation (EC) No.1907/2006 & amendment (EU) No. 1272/2013 for Polycyclic Aromatic Hydrocarbons (PAHs).

ND = Not Detected
Detection Limit = 0.2 mg/kg

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Tests Conducted
8 Phthalate Content

With reference to ISO 8124-6: 2018, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

I. Annex XVII Item 51

Test Item	CAS No.	Result (%w/w)	Reporting Limit (%w/w)	Limit (%w/w)
Dibutyl phthalate (DBP)	84-74-2	ND	0.005	-
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	0.005	-
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.005	-
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.005	-
Sum of DBP, DEHP, BBP and DIBP	-	ND	-	0.1

The above limit was quoted according to Annex XVII Item 51 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 for phthalate content in articles.

II. Annex XVII Item 52

Test Item	CAS No.	Result (%w/w)	Reporting Limit (%w/w)	Limit (%w/w)
Di-n-octyl phthalate (DnOP)	117-84-0	ND	0.005	-
Diisononyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	0.005	-
Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	0.005	-
Sum of DINP, DNOP and DIDP	-	ND	-	0.1

The above limit was quoted according to Annex XVII Item 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 for phthalate content in toys and childcare articles.

Remark: ND = Not Detected(Less than reporting limit)

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Tests Conducted

9 Organotin Content

With reference to ISO/TS 16179: 2012, organotin content was determined by Gas Chromatography - Mass Spectrometry (GC-MS) analysis.

<u>Compound</u>	<u>Result (% w/w) of tin</u>	<u>Requirement (% w/w) of tin</u>
Tri-substituted Organotin [@]	ND	0.1
Dibutyl tin (DBT)	ND	0.1
Dioctyl tin (DOT)	ND	0.1

Remark: The above requirement was quoted according to Annex XVII item 20 of the Reach regulation (EC) No.1907/2006 & amendent (EU) No.276/2010 for organotin content.

Remarks: Detection Limit = 0.001% (w/w) of tin

ND=Not Detected

[@] = The reported value was calculated by summation of the values of Tri-butyltin, Tri-phenyltin, Tri-methyltin, Tri-octyltin, Tri-cyclohexyltin

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10 Pentachlorophenol (PCP) Content

With reference to EN ISO 17070: 2015(Leather)/ LFGB § 64 BVL B 82.02.8-2001 (Textile)/ PD CEN/TR 14823: 2003 (Wood), solvent extraction was used and followed by Gas Chromatography-Mass Spectrometric (GC-MS) analysis.

<u>Test Item</u>	<u>Result (mg/kg)</u>	<u>Detection Limit (mg/kg)</u>	<u>Requirement (mg/kg) (Max.)</u>
Pentachlorophenol (PCP)	ND	0.1	5

The limit was quoted according to Regulation (EU) 2019/1021 on persistent organic pollutants (POPs) and Amendment (EU) 2021/277 for Pentachlorophenol (PCP) content.

Remark: ND = Not Detected (Less than detection limit)

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Tests Conducted

11 Short-Chain Chlorinated Paraffins (C10~C13)(SCCPs) Content

By solvent extraction, determined by Gas Chromatography-Negative Chemical Ionization-Mass Spectrometry (GC-NCI-MS).

Result (%. w/w)

ND

Requirement:

Short Chain Chlorinated Paraffin's concentration should be lower than 0.15% in articles under Annex I Part A of the Regulation (EU) 2019/1021 on persistent organic pollutants (POPs).

Short Chain Chlorinated Paraffin's concentration should be lower than 1% in substances or mixtures under Annex I Part A of the Regulation (EU) 2019/1021 on persistent organic pollutants (POPs).

Remark: Detection Limit = 0.01% (w/w)

ND = Not Detected

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Tests Conducted

Photo



End Of Report

*The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.
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