

**Test Report**

Number: SHAH0163042001

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: 15 Nov, 2023

Sample Description:

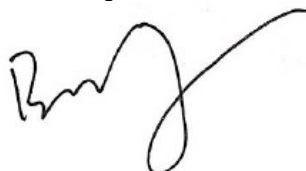
One( 1 ) piece of submitted sample said to be :  
Item Name : Frosted flannel.  
Country Of Origin : China.

Tests Conducted:

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

Tested Sample	Standard	Result
Submitted Samples	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	Pass
Submitted Samples	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 Samples	Annex XVII item 46a of the REACH regulation (EC) No.1907/2006 & Amendment (EU) 2016/26 for Nonylphenol Ethoxylates(NPEO) in textile article	Pass
Submitted Samples	Nonylphenol (NP) Content.	See Test Conducted
Submitted Sample	Nonylphenol Ethoxylates(NPEO)	See Test Conducted
Submitted Samples	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 Samples	N,N-dimethylformamide (DMF) content requirement in Annex XVII Entry 76 the REACH Regulation (EC) No 1907/2006 and Amendment (EU) 2021/2030	Pass

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



Bill Zhang  
General Manager



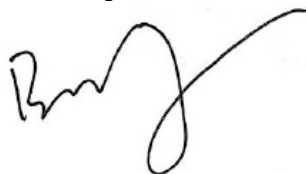
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<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Submitted Samples	C9-C14 PFCAs, their Salts and C9-C14 PFCAs- related substances content requirement in Annex XVII Entry 68 of the REACH Regulation (EC) No 1907/2006 and Amendment (EU) 2021/1297	Pass
Submitted Samples	Organotin content requirement in Annex XVII item 20 of the Reach regulation (EC) No.1907/2006 & amendent (EU) No.276/2010	Pass
Submitted Samples	Regulation (EU) No 2019/1021 on Persistent Organic Pollutants (POPs) and Amendment (EU) 2021/277 for Pentachlorophenol (PCP) content	Pass
Submitted Samples	Short-Chain Chlorinated Paraffins (C10~C13)(SCCPs) requirement in Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs)	Pass

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Tests Conducted

1. Detection Of Amines Derived From Azocolourants and Azodyes:

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

Test Method: EN ISO 14362-1: 2017 for Textile Material

	<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-Diaminoaniso	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
23.	2,4-xylidine	95-68-1	N	N
24.	2,6-xylidine	87-62-7	N	N

Remark: N = Not Detected  
 Detection Limit = 5 ppm  
 Requirement = 30ppm(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

The result of additional amines (23-24) are reported for reference only.

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### Tests Conducted

#### 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>
ND	0.05

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

Tested Components: See component list in the last section of this report.

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#### 3. Nonylphenol Ethoxylates (NPEO) Content

By solvent extraction and followed by Liquid Chromatographic – Tandem Mass Spectrometric (LC-MS/MS) analysis.

<u>Tested Compound</u>	<u>Result (%.w/w)</u>	<u>Limit (%.w/w) (Max.)</u>
Nonylphenol Ethoxylates (NPEO)	ND	0.01

The above limit was quoted according to Annex XVII item 46a of the REACH regulation (EC) No.1907/2006 & Amendment (EU) 2016/26 for Nonylphenol Ethoxylates (NPEO) in textile article.

Remark: ND = Not Detected  
Detection Limit = 0.001%

Tested Components: See component list in the last section of this report.

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4. Nonylphenol (NP) content.

By solvent extraction and followed by Liquid Chromatography – Mass Spectrometry (LC-MS) analysis.

<u>Compound</u>	<u>Result (ppm)</u>
NP	ND

Remark: Detection Limit = 10ppm  
ND = Not Detected  
ppm = Parts per million = mg/kg

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5. Nonylphenol Ethoxylates(NPEO)

By solvent extraction and followed by Liquid Chromatography – Mass Spectrometry (LC-MS) analysis.

<u>Compound</u>	<u>Result (ppm)</u>
NPEO	ND

Remark: Detection Limit = 10ppm  
ND = Not Detected  
ppm = Parts per million = mg/kg

Tested Components: See component list in the last section of this report.

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## Tests Conducted

6. 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.

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
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)

Tested Components: See component list in the last section of this report .

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7. 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	0.0112	0.0005	0.3

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.

Tested Components: See component list in the last section of this report.

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Tests Conducted

8. 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	25
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), Perfluorocylethanol 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.

Tested Components: See component list in the last section of this report.

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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 <sup>@</sup>	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

<sup>@</sup> = The reported value was calculated by summation of the values of Tri-butyltin, Tri-phenyltin, Tri-methyltin, Tri-octyltin, Tri-cyclohexyltin

Tested Components: See component list in the last section of this report.

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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)

Tested Components: See component list in the last section of this report.

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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

Tested Components: See component list in the last section of this report.

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Tests Conducted

Photo



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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.*

*The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) received and tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek Testing Services Wuxi Ltd.*

