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TEST REPORT

Number: GZHT91221350(S1)

Applicant: MID OCEAN BRANDS B.V.
7/F, KINGS TOWER, 111 KING LAM STREET,
CHEUNG SHA WAN, KOWLOON, HONG KONG

Attn: DEREK HUI

Date: Dec 04, 2023
THIS IS TO SUPERSEDE REPORT NO. GZHT91221350 DATED OCT 27, 2023

Sample Description:

Nine(9) pairs of submitted sample said to be BBQ glove in BBQ set.

Standard	:	BS EN ISO 21420:2020 / ISO 21420:2020 EN 407:2020, 4.4.1 & EN 659:2003+A1:2008
Size	:	--
Ref.	:	104438 Style No.: KC6388 Oven glove
Date Received/Date Test Started		Oct 19, 2023/--
Goods Exported to		Europe
Date Final Information Confirmed/ Date Payment Received:		--/--

Test Result Please Refer To Attached Page(S).

Should you have any query on this report, you may contact at gzfootwear@intertek.com

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Tests Conducted (As Requested By The Applicant)

1 Cleaning (BS EN ISO 21420:2020 / ISO 21420:2020, 4.3)

As Care Instructions Were Provided, The Relevant Performance-related Tests Of This Document And The Specific Standards Were Performed On The Gloves, Before And After They Had Been Subjected To The Maximum Recommended Number Of Cleaning Cycles.

Wash Condition:	
Washing Standard:	ISO 6330:2012
Machine:	Type A
Reagent:	Reference Detergent 3
Washing Procedure:	3N
Bleaching Procedure:	Do Not Bleach
Drying Procedure:	Do Not Tumble Dry, Line Drying
Ironing Procedure:	Do Not Iron
Professional Textile Care Procedure:	Do Not Dry Clean
Number Of Cycles:	25

2 Glove Design And Construction - General (BS EN ISO 21420:2020 / ISO 21420:2020, 4.1)

Requirement	Yes	No	N/A
The Protector Shall Be Designed And Manufactured So That In The Foreseeable Conditions Of Use, The User Can Perform The Activity As Normally As Possible With An Appropriate Protection. This Document Along With The Appropriate Specific Standards Shall Be Used To Verify This Adequation.	√		
If Required In The Relevant Specific Standard (For Example ISO 16073:2011, 5.7.3), The Glove Shall Be Designed To Minimize The Donning And Doffing Time.	√		
For Reusable Multilayer Protector, The Gloves Shall Be Able To Doffed Without Separation Of The Layers Of The Fingers. When The Protector Construction Includes Seams, The Material And Strength Of The Seams Shall Be Such That The Overall Performance Of The Protector Is Not Significantly Decreased As Required In The Relevant Specific Standards.	√		

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3 Glove Length (BS EN ISO 21420: 2020 / ISO 21420:2020, 6.1)

Specimen 1	Glove Length:	227 mm
Specimen 2	Glove Length:	232 mm
Specimen 3	Glove Length:	233 mm

4 Time For The Removal Of The Gloves (EN 407:2020, 4.4.1 & EN 659:2003+A1:2008, 3.15)

Before Washing After Dry Conditioning (20±2℃, 65±5% R.H, 24 Hours):		Requirement	Pass/Fail
Sample 1:	1.1 seconds		
Sample 2:	1.2 seconds		
Sample 3:	1.3 seconds		
Mean:	1 second	Max. 3 seconds	Pass

After Washing After Dry Conditioning (20±2℃, 65±5% R.H, 24 Hours):		Requirement	Pass/Fail
Sample 1:	1.2 seconds		
Sample 2:	1.3 seconds		
Sample 3:	1.3 seconds		
Mean:	1 second	Max. 3 seconds	Pass

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5 Contact Heat (EN 407:2020, 6.3 & EN ISO 12127-1:2015)

Before Washing

Test Area:	Palm Of The Glove	
Contact Temperature		Threshold Time
250℃	Specimen 1	23 seconds
	Specimen 2	25 seconds
	Specimen 3	24 seconds

Observation (*): Innermost Layers Of The Glove Showed No Sign Of Melting And Holing.

Contact Temperature		Threshold Time
350℃	Specimen 1	6 seconds
	Specimen 2	6 seconds
	Specimen 3	6 seconds

Observation (*): Innermost Layers Of The Glove Showed Sign Of Melting And Holing.

After Washing

Test Area:	Palm Of The Glove	
Contact Temperature		Threshold Time
250℃	Specimen 1	25 seconds
	Specimen 2	26 seconds
	Specimen 3	25 seconds

Observation (*): Innermost Layers Of The Glove Showed No Sign Of Melting And Holing.

Contact Temperature		Threshold Time
350℃	Specimen 1	5 seconds
	Specimen 2	5 seconds
	Specimen 3	5 seconds

Observation (*): Innermost Layers Of The Glove Showed Sign Of Melting And Holing.

Performance Level (*1 & *2): 2

Remark: * = Innermost Layers Of The Glove Shall Show No Sign Of Melting And Holing.
*1 = The Performance Level Based On The Lowest Of The Single Value.
*2 = For Contact Heat Performance Levels Of 3 Or 4, The Limited Flame Spread Test Shall Be Performed. The Product Shall Reach At Least Level 3 In The Limited Flame Spread Test, Otherwise The Maximum Contact Heat Performance That Shall Be Reported Is Level 2.

Performance Level	Contact Temperature Tc (℃)	Threshold Time t_t (s)
1	100	≥ 15
2	250	≥ 15
3	350	≥ 15
4	500	≥ 15

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6 Tear Resistance (EN 407:2020, 6.8)

Before Washing

Test Area:	Palm Of The Glove	Requirement	Pass/Fail
Specimen 1:	197 N	⩾ 10 N	Pass
Specimen 2:	169 N	⩾ 10 N	Pass
Specimen 3:	193 N	⩾ 10 N	Pass
Specimen 4:	180 N	⩾ 10 N	Pass

After Washing

Test Area:	Palm Of The Glove	Requirement	Pass/Fail
Specimen 1:	154 N	⩾ 10 N	Pass
Specimen 2:	201 N	⩾ 10 N	Pass
Specimen 3:	148 N	⩾ 10 N	Pass
Specimen 4:	169 N	⩾ 10 N	Pass

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7 Limited Flame Spread For Complete Gloves (EN 407:2020, 6.2 & EN ISO 15025:2016, Method B – Bottom-edge Ignition)

Before Washing

Test Area: Finger Area
Flame Application Time: 10 s

	After-Flame Time (s)	After-Glow Time (s)
Specimen 1:	> 20 (*2)	-
Specimen 2:	> 20 (*2)	-
Specimen 3:	> 20 (*2)	-

Observation (*): -

After Washing

Test Area: Finger Area
Flame Application Time: 10 s

	After-Flame Time (s)	After-Glow Time (s)
Specimen 1:	> 20 (*2)	-
Specimen 2:	> 20 (*2)	-
Specimen 3:	> 20 (*2)	-

Observation (*): -

Performance Level (*1): **Below The Minimum Performance Level For The Given Individual Hazard.**

Remark: * = Surface Of The Innermost Layer Of The Glove Shall Be Inspected. It Shall Show No Sign Of Melting. No Hole Shall Appear On All Layers Of The Tested Area. The Seam Shall Not Come Apart After The Ignition Time.
If The Outermost Layer Melts, The Material Shall Not Produce Molten Debris.
*1 = The Lowest Test Result Defines The Level Of Performance.
*2 = Test Suspended Due To Safety Reasons Caused By Excessive Flame.

Performance Level	After Flame Time (s)	After Glow Time (s)
1	≤ 15	No Requirement
2	≤ 10	≤ 120
3	≤ 3	≤ 25
4	≤ 2	≤ 5

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8 pH Value

AS Per BS EN ISO 21420:2020, 4.2, With Reference To BS EN ISO 3071:2020 For Textile, Potassium Chloride (KCI) Solution Extracted, pH Value Was Measured By pH Meter.

Tested Components	Results	Requirement
(1)	6.5	*
(2)	6.4	*
(3)	6.4	*

Temperature Of The Extracting Solution: 23.4℃
pH Of The Extracting Solution: 6.14

Remark: * = The pH Value Shall Be Greater Than 3.5 And Less Than 9.5

Tested Components: Please See Component List In The Last Section Of This Report.

Conclusion:

Standard	Result
BS EN ISO 21420:2020 For pH Value	Pass

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9 Azo Colourants Content

With Reference To Test Method: Textile Method (ISO 14362-1:2017)

Amines Content Was Determined By Gas Chromatography-Mass Spectrometry (GC-MS)

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

Remark: Requirement = 30 mg/kg
Reporting Limit = 5 mg/kg
Method T: Direct Buffer Extraction As Per ISO 14362-1:2017 Section 10.2
Method D: Colourant Extraction With Xylene As Per ISO 14362-1:2017 Section 10.1

Tested Components: Please See Component List In The Last Section Of This Report

Conclusion:

Standard	Result
BS EN ISO 21420:2020 Protective Gloves - General Requirements And Test Methods - Azo Colourants Content	Pass

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Component List:
(1) Red 95% Polyester And 5% Cotton (Palm/Back/Binding).
(2) White 100% Polyester (Lining).
(3) White 100% Polyester (Interlayer Padding).

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End Of Report

Remark:
1. As Requested by the Applicant, For Details Refer to Attached Page (S).
2. All the tested item are tested under the standard condition.
3. The report is valid with commission test only for the test samples in the case of delivering samples by clients.

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To : MID OCEAN BRANDS B.V.
Attention : DEREK HUI Date : Dec 04, 2023

Re : Report Revision Notification

Labtest Report Number GZHT91221350 date OCT 27, 2023

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Labtest Report, Number GZHT91221350(S1) , issued on Dec 04, 2023 .

Thank you for your attention

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