

iROO TEST REPORT 檢測報告

TO: 依洛國際開發股份有限公司

ADDs: 新北市板橋區三民路 2 段 31 號 9 樓

BUYER: **iROO**
買家

LAB NO.:

報告號碼

(6221)347-5167

DATE IN:

進件日期

DEC. 13, 2021

MODIFIED DATE IN:

調整後的進件日期

/

DATE OUT:

出件日期:

DEC. 28, 2021

NO. OF WORKING DAYS:

工作日

-

PAGE NO.:

頁碼:

1 OF 8

TEST SAMPLE

(測試樣品)






OVERALL RATING

總評級

See Test Result

請參考測試結果

X

Sample Description: 樣品描述:	駿德 MTCN-210409-04		
Season: 單元:	3I	P.O. No.: 訂單號碼:	/
Age Group: 適用年齡層:	<input checked="" type="checkbox"/> Adult <input type="checkbox"/> Child (age ≤ 12) <input type="checkbox"/> All	End Used: 最終產品:	/
Color: 顏色:	A: 黑 / B: 白 / C: 粉 / D: 灰	Country of Origin: 原產國:	/
Quantity: 數量:	/	Fabric Type: 布種:	/
Fabric Construction 規格:	/	Treatment: 後加工處理:	/
Product Category: 產品類別:	Fabric		
Test Requested: 測試要求:	iROO		
Previous Report No.: 前一份報告號:	/		
Submitted Fiber Content: 提交纖維含量:	74% Polyamide 26% Elastane 74% 錦綸 26% 氨綸		
Actual Fiber Content: 實際纖維含量:	75.0% Polyamide 25.0% Elastane 75.0% 錦綸 25.0% 氨綸		
Suggested Fiber Content: 建議纖維含量:	74% Polyamide 26% Elastane 74% 錦綸 26% 氨綸 (Pending Garment Review / 僅供成衣參考)		
Client Expected Care Instruction: 客戶要求的水洗方法:	      <p>手洗勿浸泡; 低溫墊布燙; 不可乾洗; 不可漂白; 不可烘乾; 平放乾燥</p>		

C/N NC/JK

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TEST PROPERTY 測試項目	RATING 評級	COMMENTS 評語
成份分析 (Fiber Content)	PASS 合格	
吸濕 (VERTICAL WICKING OF TEXTILES)	-	待數據
速乾 (DRYING TIME: MOISTURE ANALYZER METHOD)	-	待數據
接觸冷溫感 (Q-MAX)	PASS 合格	
抗紫外線係數 (Transmittance Of Ultraviolet Radiation Through Fabric)	PASS 合格	
織品抗菌性能定量評估 (Assessment Of Antibacterial Finishes On Textile)	PASS 合格	

Remark: BVCPS Contact information for this report

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BUREAU VERITAS CONSUMER PRODUCTS SERVICES
(H.K.) LIMITED, TAIWAN BRANCH

VICO LIN
MANAGER
ANALYTICAL DEPARTMENT



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TEST PROPERTY

測試項目

TEST RESULT

測試結果

REQUIREMENTS

測試要求

成份分析 / Fiber Content

(GB/T 2910)

LAB ANALYSIS
(實驗室分析纖維含量)

A
75.0% Polyamide 25.0% Elastane
75.0% 錦綸 25.0% 氨綸

±3%

吸濕 / VERTICAL WICKING OF TEXTILES

(AATCC 79)

Original (Sec)

A
Avg.
待數據

速乾 / DRYING TIME: MOISTURE ANALYZER METHOD

(AATCC 201)

Volume of water (ml)
Drying time (mins)
Drying time (hour)
Drying rate(ml/h)

A
1st
待數據

接觸冷溫感 / Q-MAX

(W/cm², J/cm²·sec)

精密迅速熱物性測定裝置
(KES-F7 II 型)

實驗室溫溼度: 20°C, 65%RH

溫度檢出器試片溫度差: 10°C

測定面: 客戶指定面

A

0.166

依照 FTTS-FA-019 標準評級:

針織物: ≥ 0.130

梭織物: ≥ 0.170

*顯示結果未達標準值 (Indicates Does Not Meet The Requirement)

TEST PROPERTY
測試項目

TEST RESULTS
測試結果

紫外線保護係數 / TRANSMITTANCE OR BLOCKING OF ERYTHEMALLY WEIGHTED ULTRAVIOLET RADIATION THROUGH FABRICS

(AATCC 183, DRY STATE, ORIGINAL, EXPOSURE TO LIGHT 100 AFU)

	A	
	<u>DRY EVALUATION</u> 乾燥評估	<u>WET EVALUATION</u> 濕式評估
ULTRAVIOLET PROTECTION FACTOR (UPF) 紫外線防護係數 (UPF)	157.659	229.706
UV-A TRANSMITTANCE (MEAN) UV-A 透射率 (平均值)	0.591	0.289
UV-B TRANSMITTANCE (MEAN) UV-B 透射率 (平均值)	0.603	0.245
% BLOCKING (UV-A, 315nm - 400nm) 遮擋百分比 (UV-A, 315nm-400nm)	99.409	99.41
% BLOCKING (UV-B, 280nm - 315nm) 遮擋百分比 (UV-B, 280nm-315nm)	99.397	99.755
UPF RATINGS UPF 評級	50+	50+
PROTECTION CATEGORY 防護等級	Excellent protection 出色的保護	Excellent protection 出色的保護

Remark 1: The listed protection category is for reference only, the market claims for labelling UV-Protection product shall follow "Standard Guide Labeling UV-Protection Textile" as stated in ASTM D6603:2012

Remark 2: Refer to ASTM D6603:2012, the UV protection category is determined the UPF values

UPF Range UPF 範圍	Protection category 防護等級	UPF Ratings UPF 評級
<15	Cannot classified as UV protective 不能歸類為紫外線防護	-
15 to 24	Good protection 良好的保護	15, 20
25 to 39	Very Good protection 很好的保護	25, 30, 35
40 to 50, 50+	Excellent protection 出色的保護	40, 45, 50, 50+

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	B	
	<u>DRY EVALUATION</u> 乾燥評估	<u>WET EVALUATION</u> 濕式評估
ULTRAVIOLET PROTECTION FACTOR (UPF) 紫外線防護係數 (UPF)	68.902	111.476
UV-A TRANSMITTANCE (MEAN) UV-A 透射率 (平均值)	4.027	4.340
UV-B TRANSMITTANCE (MEAN) UV-B 透射率 (平均值)	1.173	0.599
% BLOCKING (UV-A, 315nm - 400nm) 遮擋百分比 (UV-A, 315nm-400nm)	95.973	95.660
% BLOCKING (UV-B, 280nm - 315nm) 遮擋百分比 (UV-B, 280nm-315nm)	98.827	99.401
UPF RATINGS UPF 評級	50+	50+
PROTECTION CATEGORY 防護等級	Excellent protection 出色的保護	Excellent protection 出色的保護

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(AATCC 183, DRY STATE, ORIGINAL, EXPOSURE TO LIGHT 100 AFU)

	<u>C</u>	
	<u>DRY EVALUATION</u> 乾燥評估	<u>WET EVALUATION</u> 濕式評估
ULTRAVIOLET PROTECTION FACTOR (UPF) 紫外線防護係數 (UPF)	58.304	67.698
UV-A TRANSMITTANCE (MEAN) UV-A 透射率 (平均值)	3.524	3.555
UV-B TRANSMITTANCE (MEAN) UV-B 透射率 (平均值)	1.504	0.986
% BLOCKING (UV-A, 315nm - 400nm) 遮擋百分比 (UV-A, 315nm-400nm)	96.476	96.445
% BLOCKING (UV-B, 280nm - 315nm) 遮擋百分比 (UV-B, 280nm-315nm)	98.496	99.014
UPF RATINGS UPF 評級	50+	50+
PROTECTION CATEGORY 防護等級	Excellent protection 出色的保護	Excellent protection 出色的保護

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紫外線保護係數 / TRANSMITTANCE OR BLOCKING OF ERYTHEMALLY WEIGHTED ULTRAVIOLET RADIATION THROUGH FABRICS

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	<u>D</u>	
	<u>DRY EVALUATION</u> 乾燥評估	<u>WET EVALUATION</u> 濕式評估
ULTRAVIOLET PROTECTION FACTOR (UPF) 紫外線防護係數 (UPF)	63.708	83.541
UV-A TRANSMITTANCE (MEAN) UV-A 透射率 (平均值)	2.088	1.594
UV-B TRANSMITTANCE (MEAN) UV-B 透射率 (平均值)	1.392	0.709
% BLOCKING (UV-A, 315nm - 400nm) 遮擋百分比 (UV-A, 315nm-400nm)	97.912	98.406
% BLOCKING (UV-B, 280nm - 315nm) 遮擋百分比 (UV-B, 280nm-315nm)	98.608	99.291
UPF RATINGS UPF 評級	50+	50+
PROTECTION CATEGORY 防護等級	Excellent protection 出色的保護	Excellent protection 出色的保護

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REPORT FORMAT FOR AATCC 100 ASSESSMENT OF
ANTIBACTERIAL FINISHES ON TEXTILE

織品抗菌性能定量評估

Method Summary:

方法摘要:

The anti-bacterial properties were evaluated using ModAATCC Test Method 100-2019 Assessment of Antibacterial Finishes on Textile Materials. The following organisms were used for this test: Staphylococcus aureus ATCC strain 6538. And Escherichia coli ATCC strain 25922.

測試方法為 AATCC100 紡織品抗菌性能定量評估，測試菌株為：金黃色葡萄球菌 (Staphylococcus aureus, ATCC strain 6538), 大腸桿菌 (Escherichia coli, ATCC strain 25922)

Test samples are inoculated with the test organisms. After incubation, the bacteria are eluted from the samples by shaking in known amounts of neutralizing solution. The number of bacteria present in this liquid is determined, and the percentage reduction by treated specimen is calculated.

測試方法為將測試樣品接種測試菌株，經過培養後，加入中和劑，並將樣品中之細菌搖出，定量中和劑中之細菌數目，並計算樣品之減菌率。

Tested Component: Black Fabric
測試樣品: A 黑色織物

Test Result of Bacteriostatic Activity Value

抑菌性測試結果

Name of bacteria used for test(Strain number) 菌株名稱	Staphylococcus aureus 金黃色葡萄球菌 (ATCC strain 6538) 原樣	Escherichia coli 大腸桿菌 (ATCC strain 25922) 原樣
Antibacterial activity value (A) 抑菌值	≥ 99.9	≥ 99.9

Remarks / 備註:

- Sample size per container: 1.9 g (6 swatches)
1. 樣品使用量: 1.9 克
- Volum of Inoculum: 1 mL
2. 接種量: 1 mL
- Method of sterilization: None
3. 殺菌方式: 無
- No. of bacteria were inoculated per mL: 1.3×10^5 CFU of S.aureus and 1.7×10^5 CFU of E.coli.
4. 每個樣品接種數為 1.3×10^5 CFU 的金黃色葡萄球菌和 1.7×10^5 CFU of E.coli.
- Neutralization solution: D/E Neutralizing Broth
5. 中和液: D/E Neutralizing Broth
- The dilution of the test organism: 1:20 times diluted TSB with 0.05% Triton X-100
6. 測試生物體的稀釋: 1:20 times diluted TSB with 0.05% Triton X-100
- Plate Count Medium: Nutrient Agar
7. 平板計數培養基: 營養瓊脂
- Percentage Reduction R= 100 (B-A) / B or R= 100(C-A) / C
- No. of bacteria recovered from the standard cloth after 24 hrs contact:
 2.9×10^8 cfu of S.aureus, 2.9×10^8 cfu of E.coli.
- *Identical untreated control sample was not submitted by client