

GUSTAV MULLER GMBH & CO. KG  
 RUDOLF-DIESEL-STR. 27D-78532 TUTTLINGEN

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A-F)woven hat  
 Buyer : GUSTAV MULLER GMBH & CO. KG  
 Sample Color : (A)beige;(B)navy;(C)mint;(D)olive;(E)white;(F)red  
 Style No. : 168013(968,1118,1124,1299,1382,1400,1463,1663)  
 Country of Destination : Germany  
 Retest : No

Sample Receiving Date : Nov 10, 2022  
 Testing Period : Nov 10, 2022 - Nov 15, 2022

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Test Performed : Selected test(s) as requested by applicant

Conclusion	A	B	C	D	Remark
Ultraviolet Protection Factor (UPF)	See Results	See Results	See Results	See Results	
Conclusion	E	F	Remark		
Ultraviolet Protection Factor (UPF)	See Results	See Results			

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

*Bella Zhou*

Bella Zhou (Account Executive)



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Test Result

**Ultraviolet Protection Factor (UPF)**

(AS 4399:2020, Appendix A; Test Conditions

- 1) Air temperature: 21±1°C
- 2) Relative humidity: 65±2% R.H.
- 3) Orientation of test specimen: Specimens were clamped on sample holder. Fabric face side is facing the incident UV light.
- 4) Test conducted in wavelength range 290-400 nm
- 5) Instrument: UV-Vis Spectrophotometer model
- 6) No. of Scans: 8)

As Received

	Unit	A	B	C	Requirement
Mean UPF	-	1719	2000	1236	-
Standard Deviation	-	2.5	2.5	2.5	-
Standard Error	-	6.8	0.0	16.0	-
UPF Rating	-	50+	50+	50+	-
Protection Classification	-	excellent	excellent	excellent	-
Mean UVA (315-400nm) Transmission	%	0.21	0.05	0.65	-
Mean UVB (290-315nm) Transmission	%	0.05	0.05	0.05	-

	Unit	D	E	F	Requirement
Mean UPF	-	1953	1997	2000	-
Standard Deviation	-	2.5	2.5	2.5	-
Standard Error	-	6.1	3.4	0.0	-
UPF Rating	-	50+	50+	50+	-
Protection Classification	-	excellent	excellent	excellent	-
Mean UVA (315-400nm) Transmission	%	0.07	0.05	0.05	-
Mean UVB (290-315nm) Transmission	%	0.05	0.05	0.05	-

Remarks :

1. Refer to AS 4399, the UPF classification system is:

Classification	UPF Ratings
Minimum	15
Good	30
Excellent	50, 50+

2. The results given apply only to the colour and weight of fabric tested. Unless otherwise stated the fabric is tested dry and relaxed.

3. This UPF Rating is for the fabric and does not address the amount of protection which is afforded by the



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design of the article. The manipulations involved in garment manufacture such as stretching and sewing may lower the UPF of the material.

4. The protection offered by this fabric may be lessened :

- i) At points where the fabric is in close contact with the skin such as across the shoulders
- ii) If the fabric is stretched
- iii) If the fabric is wet; and
- iv) With time due to effects of normal wear.



### Sample Photo



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The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

\*\*\*End of Report\*\*\*



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