

GUSTAV MULLER GMBH & CO. KG

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

Sample Description : Three samples of hat: marked
(A) in beige
(B) in navy
(C) in olive

Buyer : GUSTAV MULLER GMBH & CO. KG
Color : (A) beige,; (B) navy,; (C) olive
Order No. : 1097/ 1259/ 1260/ 1478/ 1497/ 1011/ 1281
Style No : 168013
Exported to : Germany

Proposed Care Instruction : -

Sample Receiving Date : Nov 29, 2019
Testing Period : Nov 29, 2019 - Dec 05, 2019

Test Result(s) : For further details, please refer to the following page(s).

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

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd



Hattie Chen (Account Executive)



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Test Result

Ultraviolet Protection Factor (UPF)

(AS/NZS 4399:2017, Appendix A; Test Conditions

- 1) Air temperature: 21±1oC
- 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
- 6) No. of Scans: 8)

As Received

	Unit	(A)	(B)	(C)
Mean UVA (315-400nm) Transmission	%	0.33	0.05	0.13
Mean UVB (290-315nm) Transmission	%	0.05	0.05	0.05
Mean UPF	-	1472	2000	1797
Standard Deviation	-	25.6	0.0	11.7
Standard Error	-	31.7	0.0	14.5
UPF Rating	-	50+	50+	50+

Comment: Sample (A) provides **Excellent** protection as per AS/NZS 4399 UPF classification system

Remarks :

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

Classification	Effective UVR transmission,%	UPF Ratings
Minimum	6.7 to 3.3	15
Good	3.2 to 2.1	30
Excellent	≤2.0	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 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.



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Sample Photo



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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