

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-H)Woven cap
Buyer : GUSTAV MULLER GMBH & CO. KG
Sample Color : (A)beige;(B)navy;(C)mint;(D)olive;(E)white;(F)blue;(G)burgundy;(H)yellow
Style No. : 258049 (967, 1107, 1355, 1659)
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

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



Bella Zhou (Account Executive)



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 | - | 1296 | 1960 | 214 | - |
| Standard Deviation | - | 2.5 | 2.5 | 2.5 | - |
| Standard Error | - | 4.1 | 3.8 | 4.0 | - |
| UPF Rating | - | 50+ | 50+ | 50+ | - |
| Protection Classification | - | excellent | excellent | excellent | - |
| Mean UVA (315-400nm) Transmission | % | 0.67 | 0.07 | 5.69 | - |
| Mean UVB (290-315nm) Transmission | % | 0.05 | 0.05 | 0.07 | - |

| | Unit | D | E | F | Requirement |
|-----------------------------------|------|-----------|-----------|-----------|-------------|
| Mean UPF | - | 650 | 1642 | 445 | - |
| Standard Deviation | - | 2.5 | 2.5 | 2.5 | - |
| Standard Error | - | 8.0 | 9.5 | 9.7 | - |
| UPF Rating | - | 50+ | 50+ | 50+ | - |
| Protection Classification | - | excellent | excellent | excellent | - |
| Mean UVA (315-400nm) Transmission | % | 1.08 | 0.31 | 1.95 | - |
| Mean UVB (290-315nm) Transmission | % | 0.05 | 0.05 | 0.06 | - |

| | Unit | G | H | Requirement |
|-----------------------------------|------|-----------|-----------|-------------|
| Mean UPF | - | 1418 | 332 | - |
| Standard Deviation | - | 2.5 | 2.5 | - |
| Standard Error | - | 19.8 | 5.8 | - |
| UPF Rating | - | 50+ | 50+ | - |
| Protection Classification | - | excellent | excellent | - |
| Mean UVA (315-400nm) Transmission | % | 0.22 | 1.94 | - |
| Mean UVB (290-315nm) Transmission | % | 0.05 | 0.08 | - |



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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 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



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End of Report

