

GUSTAV MULLER GMBH & CO. KG

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

Sample Description : (A) Cap: in beige
(B) Cap: in navy
(C) Woven fabric: in l.grey

Buyer : GUSTAV MULLER GMBH & CO. KG
Color : (A) beige; (B) navy; (C) l.grey
Order No. : 933/ 1263/ 1264/ 1223/ 1136
Style No : 178912
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	%	0.20	0.05	1.69
Mean UVB (290-315nm) Transmission	%	0.05	0.05	0.34
Mean UPF	-	1731	2000	222
Standard Deviation	-	13.2	0.0	10.6
Standard Error	-	16.3	0.0	13.1
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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 3rd Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233 t (86-21) 61402666 f (86-21) 64958763 www.sgs.com.cn
 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t (86-21) 61402666 f (86-21) 64958763 e sgs.china@sgs.com

Sample Photo



End of Report



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3rd Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233 t (86-21) 61402666 f (86-21) 64958763 www.sgsgroup.com.cn
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t (86-21) 61402666 f (86-21) 64958763 e sgs.china@sgs.com