

Test Report

Applicant:

Name : MID OCEAN BRANDS B.V.
Address : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

Sample Description:

Sample Number : HBPF210548
Sample Name : Lip balm/MO9890, IT2698, MO9407, KC7094, MO9373, MO9374, MO8740, KC6655, MO9586, MO9807, CX1470

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Test Result:

According to the test result, the PFA value of sample is "3".



To be continued



Authorized By:

For Intertek Testing Services Ltd., Shanghai

Miranda Zheng

Miranda Zheng
Senior Manager



Test Item

NF EN ISO 24443:2012 Determination of sunscreen UVA photoprotection in vitro

According to the requirements of "NF EN ISO 24443:2012 Determination of sunscreen UVA photoprotection in vitro", with the dosage of 1.3 mg/cm², using special syringe to suck up a certain volume of test sample or standard sunscreen, pointing uniformly on the surface of PMMA, applying product with medical latex fingerstall so that it can be separated evenly on the surface of PMMA. The whole board is protected from light for 30min. Then UV 2000S instrument is used to measure the transmittance of ultraviolet light, and each sample is repeated for 4 test plates, each plate is tested for 5 points, the SPF values of the standard sunscreen and the sample are recorded, respectively. After the test, putting the PMMA plate, which is applied with sample, to SOL-UV-6 solar simulator (keep samples within the range of 25 °C to 35 °C) to expose , and then using the UV 2000S instrument to measure the transmittance of ultraviolet light, each sample is repeated for 4 test plates, each plate is tested for 5 points, and the PFA values of the standard sunscreen and the sample are recorded, respectively.

Material

- 1、 Testing sample: Lid balm/IT2698
- 2、 Predicted human SPF value provided by the customer: 15
- 3、 Standard control: S2 Reference Sunscreen
- 4、 PMMA plate: methyl methacrylate plate
- 5、 Instrument: UV 2000S UV transmittance analyzer (Labsphere Co., Ltd.), SOL-UV-6 solar simulator (Newport).

Test result(s)

The PFA values of S2 Reference Sunscreen and sample

No.	Sample	S2 Reference Sunscreen (PFA12.7)
1	3.99	14.14
2	3.93	13.81
3	3.93	13.13
4	3.93	13.98
Average	3.95 ± 0.03	13.76 ± 0.45

Date Sample Received: Jun.11,2021

Testing Period: Jun.24,2021

End of report



Appendix file

The sample picture



End of appendix file

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TEST REPORT

Applicant: MID OCEAN BRANDS B.V.
7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.

Sample Description:

Item Number : PBSPF202023
Item Name : Lip balm/
MO9890
IT2698
MO9407
KC7094
MO9373
MO9374
MO8740
KC6655MO9586
MO9807
CX1470

ORIGINAL

Test conducted:
As requested by the applicant, for details refer to attached page(s).

Test method:
Hygienic Standard for Cosmetic, Version 2015(Short for HSC)

Test conclusion:
According to the test result, the SPF value of the test sample is "15".


To be continued

Prepared And Checked By:
For Intertek Testing Services Ltd., Shanghai



Miranda Zheng
Manager

Authorized By:
For Intertek Testing Services Ltd., Shanghai



Joanne Li
General Manager



Test Item

Sunscreen cosmetics sun protection factor (SPF) test

Test method

Hygienic Standard for Cosmetic, Version 2015(Short for HSC)

1. SPF value test

- a. 24 hours to 7 days before the test, test the minimal erythema dose (MED) of the subjects' back under UV irradiation. Adjust the amount of UV irradiation for the sample test according to the predicted results.
- b. Select 3 normal areas (6cm*7cm = 42cm²) in the subjects' back. The test sample and the standard weighed in a syringe and applied to the test site using a clean finger or finger cot. The test material was weighed in a weigh boat, applied to the test site using a clean finger or finger cot. The test material was thoroughly rubbed into the test site. Both standard and test material were dispensed at a final concentration of 2.00±0.05mg/cm². Evenness of each application was confirmed under a Wood's Lamp. Then let the subjects wait 15-30 minutes.
- c. The UV exposures for the Protected test sites were calculated from previously determined MED and the expected SPF as follows:

Expected SPF Value	Geometric Progression of the UV dose
SPF < 25	1.25
SPF ≥ 25	1.12

- d. Carry out UV radiation of three areas: blank control area, standard control area and test sample area. After 20±4 hours, record the MED value of three areas.
- e. The SPF calculation formula is as follows:

$$SPF = \frac{MED \text{ (Protected skin)}}{MED \text{ (Unprotected skin)}}$$

Calculated the mean of all subjects' SPF value and take its integral part as the SPF value.

Material and subject

- 1. Testing sample: Cosmetic final product
- 2. Reference sunscreen formulation:
P2 (SPF16.1 ± 2.4), formulated according to ISO 24444(2010) standard formula.
- 3. Subjects:
Healthy volunteers between eighteen and sixty years of age were recruited for this study. Test subjects included in the SPF test shall be only phototypes I, II or III according to Fitzpatrick or shall have an ITA° value > 28° by colorimetric methods and be untanned on the test area.
SPF value test: 10 in total (2males、 8 females), aged from 19 to 58, meet the voluntary inclusion criteria.
- 4. Equipment:
UV source (Power): Solar Light 601-300 V2.5, 300 Watt (Serial Number #25921)
Spectrum: Type UVery
Filters: UV Dichroic - WG320-1.26mm - UG11-1mm
SUV Detector: Solar Light Model PMA2108 Detector S/N 10852

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Test result(s)

Number of subjects	Name	Sex	Age	Skin phototypes	The SPF value of control sample	The SPF value of testing sample
1	CMQ	Female	57	II	12.9	15.0
2	WR	Female	51	II	12.9	10.2
3	ZJX	Male	42	II	16.1	16.0
4	YJQ	Female	19	III	12.9	12.0
5	DYF	Female	35	III	16.1	18.8
6	YY	Female	46	III	20.1	18.8
7	CXW	Male	55	III	20.0	14.9
8	GXL	Female	36	III	12.9	18.8
9	LXY	Female	58	II	12.9	15.0
10	XGD	Female	49	II	12.9	18.8
Average					15.0	15.8
Standard deviation					3.0	3.0
95%CI					12.8~17.1	13.7~18.0
17% of the mean					12.4~17.5	13.1~18.5

Date Sample Received: May.20,2020

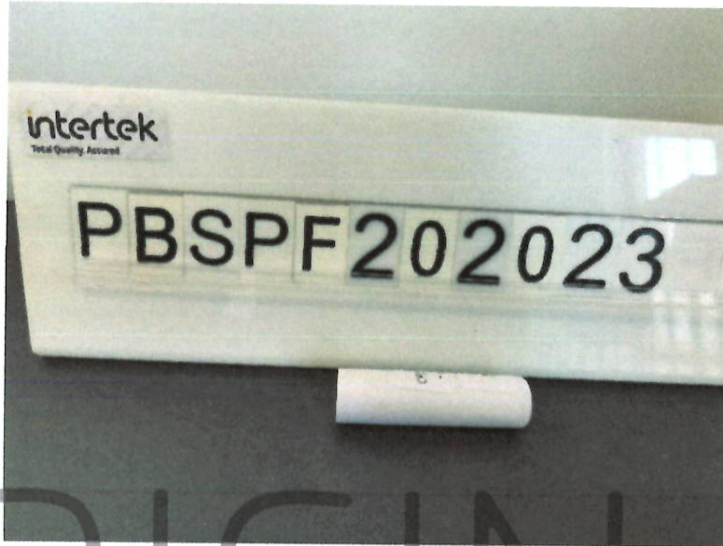
Testing Period: Jun.16,2020 To Aug.05,2020

Report Date : Aug.20,2020

To be continued

Appendix A

The sample picture



ORIGINAL End of report

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