

TEST REPORT

Applicant: MID OCEAN BRANDS BV
7/F, KINGS TOWER,
111 KING LAM STREET,
CHEUNG SHA WAN,
KOWLOON
HK
Attn: GARY YUEN

Number: HKGH02493547 S1

Date: Aug 21, 2019

This is to supersede Report No. HKGH02493547 dated Aug 15, 2019 due to information update

Submitted sample said to be :
Item Name : **ML4001(grey and yellow colors), ML4001-70, ML4001-14, KC8282 & ML4101**
Quantity : Six pieces per style
Date sample received : Aug 01, 2019
Testing period : Aug 01, 2019 to Aug 13, 2019



Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) BS EN 13356:2001 Visibility accessories for non-professional use - Test methods and requirements (Partial Test)	See detail enclosed

For and on behalf of :
Intertek Testing Services HK Ltd.

Cindy I.K. Chan
Director



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(1) Performance Tests for Visibility Accessories for Non-Professional Use

Test Standard : BS EN 13356:2001 Visibility accessories for non-professional use - Test methods and requirements (Partial Test)

Number of samples tested: Two (2) pieces per style; total two (2) styles.

Type of accessories: Flexible, Type 2 - Removable accessory

Note :

- 1) The submitted samples did not fall into the scope of the standard and the result was adopted as reference.
- 2) The submitted samples were tested at flat condition (not rolled).
- 3) For type 2 and 3 accessories, there is a minimum CIL value of $R = 400\text{mcd/lx}$ in all directions around the person at $\alpha = 0.33^\circ$, $\beta_1 = +5^\circ$. However, it is not possible within the scope of this test to check that the minimum CIL value of R can be achieved in all directions around a wearer. This particular requirement is dependant on the number attached and the placement of these retro-reflectors on a garment / wearer.

Clause	Requirement	Result
4.2	Specific requirements for different types of accessories	
4.2.2	Photometric requirements	P
4.2.3	Abrasion resistance (brush resistance)	P

Abbreviation : P = Pass



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Test data:

Clause 4.2.2 / Photometric test (as received)

Observation angle, α	Entrance angle, β		Requirement (R') (cd/lx.m ²)	Measured value (R') (cd/lx.m ²)	
	β_1	β_2		Grey sample	Yellow sample
0.2°	+5°	0°	110	476.8	583.3
	+20°	0°	80	320.3	410.3
0.33°	+5°	0°	80	321.0	349.0
	+20°	0°	60	228.8	282.0
1.5°	+5°	0°	4	29.7	28.8
	+20°	0°	3	22.4	24.7

Clause 4.2.3 / Photometric test after test exposure 1 (5.3 Abrasion test)

Observation angle, α	Entrance angle, β		Requirement (R') (cd/lx.m ²)	Measured value (R') (cd/lx.m ²)	
	β_1	β_2		Grey sample	Yellow sample
0.2°	+5°	0°	110	483.0	495.5
	+20°	0°	80	326.8	332.5
0.33°	+5°	0°	80	273.0	291.3
	+20°	0°	60	223.5	246.3
1.5°	+5°	0°	4	28.0	27.3
	+20°	0°	3	24.7	26.2

Date sample received : Aug 01, 2019
 Testing period : Aug 01, 2019 to Aug 13, 2019

End of report

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To: MID OCEAN BRANDS BV
Attention: GARY YUEN

Ref: FC-2019-8329
Date: Aug 21, 2019

Re : Report Revision Notification

Intertek Testing Services Report Number HKGH02493547 Dated Aug 15, 2019

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services report, HKGH02493547 S1.

Thank you for your attention.

For and on behalf of :
Intertek Testing Services HK Ltd.



Cindy I.K. Chan
Director