

MID OCEAN BRANDS B.V.
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The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A,B) Reflective slap band

Sample Color : (A) Yellow; (B) Grey

Style No. : ML4001, ML4101, KC8282

Proposed Care Instruction : -

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

Sample Receiving Date : Mar 29, 2021

Testing Period : Mar 29, 2021 - Apr 02, 2021


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).

Personal Protective Equipment - Visibility Accessories for Non-Professional Use - Test Methods and Requirements (EN 13356:2001)

Conclusion	A	B	Remark
General Requirements	PASS	PASS	
Photometric Testing	PASS	PASS	
Photometric Testing after Abrasion Test	PASS	PASS	
Photometric Testing after Low Temperature Folding	PASS	PASS	
Photometric Testing after Temperature Variation	PASS	PASS	
Photometric Testing after Influence of Rainfall	PASS	PASS	

Remark(s) : PASS=Meet General Requirement

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



Sara Guo (Account Executive)



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Test Result

Personal Protective Equipment - Visibility Accessories for Non-Professional Use - Test Methods and Requirements

EN 13356:2001

General Requirements

(EN 13356:2001 Clauses 4.1)

Sample: A

Type	Requirement	Results	Comment
2	Accessory shall exceed the area of 15cm ² .	37.5cm ²	Pass

Sample: B

Type	Requirement	Results	Comment
2	Accessory shall exceed the area of 15cm ² .	39cm ²	Pass

Photometric Testing

(EN 13356:2001 Clauses 5.2)

Sample: A

Entrance Angle β_1 $\beta_2=0^\circ$	Observation Angle α	Minimum coefficients of specific retroreflection value R' (cd/(lx. m ²))	Minimum Requirement (cd/(lx. m ²))	Result
5°	0.2° (12')	646	110	Pass
	0.33° (20')	443	80	Pass
	1.5° (1°30')	27.7	4	Pass
20°	0.2° (12')	327	80	Pass
	0.33° (20')	220	60	Pass
	1.5° (1°30')	25.8	3	Pass

Entrance Angle β_1 $\beta_2=0^\circ$	Observation Angle α	Coefficient of luminous intensity R (mcd/lx)	Minimum Requirement (mcd/lx)	Result
5°	0.33° (20')	1661	400	Pass



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Sample: B

<u>Entrance Angle β_1</u> <u>$\beta_2=0^\circ$</u>	<u>Observation Angle α</u>	<u>Minimum coefficients of specific retroreflection value R'</u> <u>(cd/(lx. m²))</u>	<u>Minimum Requirement</u> <u>(cd/(lx. m²))</u>	<u>Result</u>
5°	0.2° (12')	621	110	Pass
	0.33° (20')	420	80	Pass
	1.5° (1°30')	34.8	4	Pass
20°	0.2° (12')	316	80	Pass
	0.33° (20')	190	60	Pass
	1.5° (1°30')	38.3	3	Pass

<u>Entrance Angle β_1</u> <u>$\beta_2=0^\circ$</u>	<u>Observation Angle α</u>	<u>Coefficient of luminous intensity R</u> <u>(mcd/lx)</u>	<u>Minimum Requirement</u> <u>(mcd/lx)</u>	<u>Result</u>
5°	0.33° (20')	1638	400	Pass

Photometric Testing after Abrasion Test

(EN 13356:2001 Clauses 5.3 and 5.2)

Sample: A

<u>Entrance Angle β_1</u> <u>$\beta_2=0^\circ$</u>	<u>Observation Angle α</u>	<u>Minimum coefficients of specific retroreflection value R'</u> <u>(cd/(lx. m²))</u>	<u>Minimum Requirement</u> <u>(cd/(lx. m²))</u>	<u>Result</u>
5°	0.2° (12')	602	110	Pass

Sample: B

<u>Entrance Angle β_1</u> <u>$\beta_2=0^\circ$</u>	<u>Observation Angle α</u>	<u>Minimum coefficients of specific retroreflection value R'</u> <u>(cd/(lx. m²))</u>	<u>Minimum Requirement</u> <u>(cd/(lx. m²))</u>	<u>Result</u>
5°	0.2° (12')	556	110	Pass



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Photometric Testing after Low Temperature Folding

(EN 13356:2001 Clauses 5.5.1 and 5.2)

Sample: A

<u>Entrance Angle</u> β_1 $\beta_2=0^\circ$	<u>Observation Angle</u> α	<u>Minimum coefficients of specific retroreflection value</u> R' <u>(cd/(lx. m²))</u>	<u>Minimum Requirement</u> <u>(cd/(lx. m²))</u>	<u>Result</u>
5°	0.2° (12')	401	110	Pass

Sample: B

<u>Entrance Angle</u> β_1 $\beta_2=0^\circ$	<u>Observation Angle</u> α	<u>Minimum coefficients of specific retroreflection value</u> R' <u>(cd/(lx. m²))</u>	<u>Minimum Requirement</u> <u>(cd/(lx. m²))</u>	<u>Result</u>
5°	0.2° (12')	545	110	Pass

Photometric Testing after Temperature Variation

(EN 13356:2001 Clauses 5.6.2 and 5.2)

Sample: A

<u>Entrance Angle</u> β_1 $\beta_2=0^\circ$	<u>Observation Angle</u> α	<u>Minimum coefficients of specific retroreflection value</u> R' <u>(cd/(lx. m²))</u>	<u>Minimum Requirement</u> <u>(cd/(lx. m²))</u>	<u>Result</u>
5°	0.2° (12')	627	110	Pass

Sample: B

<u>Entrance Angle</u> β_1 $\beta_2=0^\circ$	<u>Observation Angle</u> α	<u>Minimum coefficients of specific retroreflection value</u> R' <u>(cd/(lx. m²))</u>	<u>Minimum Requirement</u> <u>(cd/(lx. m²))</u>	<u>Result</u>
5°	0.2° (12')	468	110	Pass

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Photometric Testing after Influence of Rainfall

(EN 13356:2001 Clauses 5.7.2 and 5.2)

Sample: A

<u>Entrance Angle</u> β_1 $\beta_2=0^\circ$	<u>Observation Angle</u> α	<u>Minimum coefficients of specific retroreflection value</u> R' <u>(cd/(lx. m²))</u>	<u>Minimum Requirement</u> <u>(cd/(lx. m²))</u>	<u>Result</u>
5°	0.2° (12')	409	110	Pass

Sample: B

<u>Entrance Angle</u> β_1 $\beta_2=0^\circ$	<u>Observation Angle</u> α	<u>Minimum coefficients of specific retroreflection value</u> R' <u>(cd/(lx. m²))</u>	<u>Minimum Requirement</u> <u>(cd/(lx. m²))</u>	<u>Result</u>
5°	0.2° (12')	568	110	Pass

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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