

#### Report No.: AGC03778181201-006S2

Date: Jan.14, 2019

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#### Applicant: MID OCEAN BRANDS B.V

7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

#### Report on the submitted samples said to be:

Sample Name	:	See Sample Information
Model	:	See Sample Information
Manufacturers	:	101191
Sample Receiving Date	15%	Dec.03, 2018
Testing Period	Atte	Dec.03, 2018 to Dec.18, 2018

**Test Method** 

Please refer to next page(s).

**Test Result** 

Address:

Please refer to next page(s).

#### **Test Requested**

1.ISO 12312-1:2013+A1:2015, excluding:

- Clause 12 Information and labeling

#### Conclusion

Pass

Jay Approved by Liujinliang, Jay.Liu Laboratory Supervisor



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# **Test Report**

Date: Jan.14, 2019

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1.Tests Conducted Summary:

(1) Requirements for Sunglasses

Test standard: - ISO 12312-1:2013+A1:2015

- ISO 12311:2013

Eye and face protection — Sunglasses and related eyewear — Part 1: Sunglasses for general use Personal protective equipment — Test methods for Sunglasses and related eyewear

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Note: The applicant's attention was drawn that the manufacturer should not use the frame materials which are known to cause irritation, allergic or toxic reaction during wear in a normal state of health against significant proportion of users.

CLAUSES	R	RESULT	
4 Constructio	on and materials	The the second of the second can be a second c	Fration of Globald
4.1	Construction	CO CO	Р
4.2	Filter material and surface qualit	y y	Р
4.3	Physiological compatibility (Nic	kel Release)	NA
5 Transmitta	nce	A Constants - F. Tomation - C. F. Sandara	A C Allestation
5.2	Transmittance and filter	Filter categories	Cat.3
Allestation	categories	UV requirements	Р
5.3 General tra	ansmittance requirements	The the contained of the stand contained of the	Restation of Close C
5.3.1	Uniformity of luminous transmit	ttance	Р
C The station of Gir	Requirements for road use and	5.3.2.2 Spectral transmittance	Р
5.3.2		5.3.2.3 Detection of signal lights	P
	unving	5.3.2.4 Driving in twilight or at night	NA
5.3.3	Wide angle scattering	GC GC A	Р
G	Additional transmittance	5.3.4.1 Photochromic filters	NA
5.3.4	requirements for specific filter	5.3.4.2 Polarizing filters	NA
	types	5.3.4.3 Gradient filters	NA
6 Refractive	power		
6.1	Spherical and astigmatic power	THE THE ACCOUNTS	P P
6.2	Local variations in refractive por	wer	puesenon P
6.3	Prism imbalance (relative prism	error)	P

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CLAUSES	REQUIREMENTS	RESULT
7 Robustn	ess billion to the second s	C Franciscon
7.1	Minimum robustness of filters	Р
7.2	Frame deformation and retention of filters	Р
8	Resistance to solar radiation	Р
9	Resistance to ignition	Р
11 Protect	ive requirements	The the manage
11.1	Coverage area	P P
12 Inform	ation and labeling	
12.1	Information to be supplied with each pair of sunglasses	NR
12.2	Additional information	NR

Remark: P=Pass; F=Fail; NA=Not Applicable; NR=Not Require; X=Checked; Cat.=Category;

#### **Test Results**

#### Construction—Clause 4.1 and Filter material and surface quality —Clause 4.2

Sample Number	NO S			8 Frat Claba		
	Constr	uction	Filter material an	d surface quality	Comment	Result
	Observed	Absent	Observed	Absent		
100	2	X		X		Р

Requirements:

1. Construction shall be smooth and without sharp projections;

2. Filter material and surface quality: Except in a marginal area 5 mm wide, sunglass filters shall have no material or machining defects within an area of 30mm diameter around the reference point that may impair vision, e.g. bubbles, scratches, inclusions, dull spots, pitting, mould marks, notches, reinforced points, specks, beads, water specks, pocking, gas inclusions, splintering, cracks, polishing defects or undulations.

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Transmittance and filter categories —Clause 5.2

Sample No.: 1		litte	illi,	The Compliance
Test Items	Requirements	Left	Right	Result(s)
The the completions	For Cat. 0: 80.0~100	of of Call	S	No
Luminous	For Cat. 1: 43.0~80.0			
$transmittance\tau_v$	For Cat. 2: 18.0~43.0	17.0	10.5	0.03
(380~780)nm (%)	For Cat. 3: 8.0~18.0	17.9	18.5	Cat.3
F. Const Compliant	For Cat. 4: 3.0~8.0	or Cat. 4: 3.0~8.0		G
Filter categories	Claimed Cat.: (Not Provided)			107
τ <sub>SUVB</sub>	For Cat.0, $1 \equiv 0.05\tau_v$		The Williams	Compliance
(280~315)nm (%)	For Cat.2: 1.0% absolute or $0.05\tau_{v}$	0.0	0.0	P
	whichever is greater;	0.0	0.0	
itante EA Comp	For Cat.3, 4:1.0% absolute	9		
	For Cat.0, $1: \leq \tau_v$ ;		The the property	The Comple
$ au_{SUVA}$	For Cat.2, $3 \le 0.5 \tau_v$	0.0		Station of Glov
(315~380)nm (%)	For Cat.4:1.0% absolute or $0.25\tau_v$	0.0	0.1	P
	whichever is greater			
$\tau_{\rm sb}$ (380~500)nm (%)		14.4	14.2	Only Ref.

Measurement Uncertainty (if necessary):

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#### Uniformity of luminous transmittance —Clause 5.3.1

Sample No.: 1	Go			The ampliant
Test Items	Requirements	Left	Right	Result(s)
Difference within filter (%) (relative to higher value)	The relative difference in the luminous transmittance value shall not be greater than 10%, except for Cat. 4 where it shall not be greater than 20%	3.8	2.0	P
Difference with mounted filters (relative to higher value)	The relative difference between the luminous transmittance value of the visual center for right and left eye shall not exceed 15%		.0	P

Measurement Uncertainty (if necessary):

#### Requirements for road use and driving — Clause 5.3.2

Sample No.: 1								
Test Items	Requirements	Left	Right	Result(s)				
Categories	Filters suitable for road use and driving shall be categories 0, 1, 2 or 3	Cat.3	Cat.3	РС				
Spectral transmittance (475~650)nm (%)	$\geq 0.2\tau_v$	6.4 (0.2 $\tau_v$ =2.0)	5.8 ( $0.2\tau_v=2.0$ )	© Pharmachan				
Red Signal	≧0.80	0.962	0.986					
Yellow Signal	≥0.60	1.008	1.023					
Green Signal	≧0.60	1.042	1.030					
Blue Signal	≧0.60	0.875	0.851	A.O.				
Driving in twilight or at night(%)	$\tau v \ge 75\%$	10.1	9.8	NA				

Measurement Uncertainty (if necessary):

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#### Wide angle scattering —Clause 5.3.3

· ·	Wide angle s	D II	
Sample Number	Left	Right	Result
The stand of the stand	C <sup>2.2</sup>	GC 2.2	Р

#### Requirements:

The wide angle scattering of the filters in the condition as supplied by the manufacturer shall not exceed the value of 3 %.

Measurement Uncertainty (if necessary):

#### **Refractive power—Clause 6**

Sample No.:	I shoal com	Allestant	C <sup>™</sup> N		100-	
Test	Items	Rec	quirements	Left	Right	Result(s)
	15.	± 0.12D	The Completion Of the First Con	-0.02	-0.03	Р
Spherical Powe	er (D)	The difference powers shall n	e between the spherical not exceed 0.18 D;	0	.01	Р
Astigmatic Pow	ver (D)	≦0.12D	The the second	0.00	0.00	P .
	1 Bangara	The the mailance	° * 1*	-0.02	-0.02	SC
C Attestion of C	Spherical	$\pm 0.12D$	2*	-0.03	-0.02	
GU	Power		3*	-0.02	-0.01	PACTOR COLOR
Local variation			4*	-0.01	-0.03	
in refractive power (D)	Allestation of Ca	C	1*	0.02	0.02	
Astigmatic Power	Astigmatic		2*	0.02	0.01	
	Power	$\leq 0.12D$	3*	0.00	0.02	GP
	C Real		4*	0.01	0.02	the man
			Base Out: <1.00	8 # # 00	Company Company Company	Global Conve
Prism imbalar	ice	Horizontal Base In: <0.25		0.03		Р
		Vertical	<0.25	0.03		

#### Measurement Uncertainty (if necessary):

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Note: \* See figure: Key: A =Reference points X = Measure point



#### Figure: Measuring Location of refractive power

#### Minimum robustness of filters — Clause 7.1

Contra Contra Contra Co	Defe	ects		A A A A A A A A A A A A A A A A A A A	
Sample Number	Observed	Absent	Comment	Result	
The land	The second Committee and	XC		Р	
the show				in the states	

Requirements:

None of the following defects shall appear on filters :

- 1. Filter fracture;
- 2. Filter deformation;

#### Frame deformation and retention of filters —Clause 7.2

Sample	Boxed center	Residual Deformation X (mm)	Deformation Percentage Φ(%)	Structure		Lens Retention			
Number	Distance C (mm)			Pass	Fail	Pass	Fail	Result	
1	72.72	0.04	0.1	X	Frank Const	X	Fration of Goba Con	Р	

Requirements:

1. Be permanently deformed from its original configuration by not more than 2% of the distance C,.

- Deformation percentage $\Phi$ ; Calculation:  $\Phi$  (%) =X/C\*100
- 2. No fracture or crack at any point ;
- 3. No filter shall be displaced from the frame.

#### Measurement Uncertainty (if necessary):

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#### **Resistance to Radiation — Clause 8**

Sample No.: 1						板	
Test I	tems	Requiren	ients	Left	Right	Result(s)	
	- x5.	For Cat. 0:<±3%	For Cat. 0:<±3%Before exposure		18.5	and a construction of the second	
The relative cl	hange of	For Cat. 1: $\leq \pm 5\%$ For Cat. 2: $\leq \pm 8\%$	After exposure	18.5	18.7	Р	
	sinittanee	For Cat. 3, $4:\le\pm10\%$	Difference	3.4	1.1		
Wide angle scattering After exposure, the scattering shall not of 3%;		After exposure, the val scattering shall not exc of 3%;	ue of wide angle eed the limit value	2.2	2.3	5 <sup>C</sup> P	
Requirements for the ultraviolet	τ <sub>SUVB</sub> (280~315) nm (%)	For Cat. 0,1: $\leq 0.05\tau_v$ For Cat. 2:1.0% absolute or $0.05\tau_v$ whichever is greater; For Cat. 3, 4:1.0% absolute		0.0	0.0	P P	
spectral range for $\tau_v$ (%) $\tau_{SUVA}$ (315~380) nm (%)		For Cat. 0,1: $\leq \tau_v$ ; For Cat. 2, 3: $\leq 0.5\tau_v$ For Cat. 4: 1.0% absolute or 0.25 $\tau_v$ whichever is greater;		0.0	0.0	P	

Measurement Uncertainty (if necessary):

#### Ignition—Clause 9

Sample Number		Continued	l combustion	Comment	Result
<b>S</b> C Samp		Yes	No	Comment	Kesun
	1 The termine	The test and the second	X	Company Company	Р

Requirements:

The filters and frame shall be no continued combustion after withdrawal of the test rod.

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#### Coverage area — Clause 11.1

Sample	Туре	Test Position	Coverage area				
Number	(Adult/Children)		Pass	Fail	Comment	Result	
Hann of Gobal Comple	O The The Comment	Left	X	The second second	C - 50.	Р	
G	Adults	Right	X		A toman - to the	Р	

#### Requirements:

1. Adults' sunglasses shall cover two ellipses of horizontal diameter of 40mm and a vertical diameter of 28mm, the centres of which are separated 64mm and symmetrically placed on either side of the centre of the nose bridge of the frame.

2. Children's sunglasses shall cover two ellipses of horizontal diameter of 34mm and a vertical diameter of 24mm, the centres of which are separated 54mm and symmetrically placed on either side of the centre of the nose bridge of the frame.

#### Sample description:

ନ୍ତ	AL 3 of GIU	Green lens
	3 astallo	Orechiens

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#### Sample Information

Model	Sample Name
MO9034-48	plastic bi-color outer in Black and inner in Lime with lime mirror lens
MO9521-48	Stainless iron silver color with lime mirror lens(lime pouch)
MO8652-09	plastic Transparent frosty white frame and green leg with lime mirror lens
MO9022-40	plastic in wood pattern and matt finish with green mirror lens

This report is to supersede the report with No.: AGC03778181201-006S1 dated on Dec.21,2018.

#### The photo of the sample



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# CCC<sup>®</sup>鑫宇环检测 Attestation of Global Compliance

# **Test Report**

#### Report No.: AGC03778190101-005

Date: Jan.18, 2019

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

#### Report on the submitted samples said to be:

Sample Name :	See Sample Information
Model C :	See Sample Information
Manufacturers :	101191
Sample Receiving Date :	Jan.14, 2019
Testing Period :	Jan.14, 2019 to Jan.18, 2019
Test Method :	Please refer to next page(s).
Test Result :	Please refer to next page(s).

#### **Test Requested:**

UV400 (In-house test, and test method refer to attached pages for details)

**Conclusion:** Pass

Approved by Liujinliang, Jay.Liu

Laboratory Supervisor



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NO.



#### Report No.: AGC03778190101-005

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#### **Tests Conducted Summary**

UV400(In-house test, non-accredited test item)

As requested by the applicant, refer to test procedure of "Resistance to Radiation" in this report, assessment was made against a level of 100% UV protection, in which the spectral transmittance was examined within a range of 280nm-400nm before and after exposure.

Sample Number	Wayolongth (nm)	Maximum Spectra	Docult	
	wavelength (mm)	Left	Right	Kesun
	280-400	0.1	0.1	Pass

Requirements:

Maximum spectral transmittance shall not exceed 0.5%.

Measurement Uncertainty (if necessary):

#### Sample description:

1 Green lens

#### **Sample Information**

Model	Sample Name
MO9034-48	plastic bi-color outer in Black and inner in Lime with lime mirror lens
MO9521-48	Stainless iron silver color with lime mirror lens(lime pouch)
MO8652-09	plastic Transparent frosty white frame and green leg with lime mirror lens
MO9022-40	plastic in wood pattern and matt finish with green mirror lens

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#### The photo of the sample





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