

Test Report

Report No. : AGC03778250405-001S3

SAMPLE NAME: Wooden look sunglasses

MODEL NAME : MO9022

APPLICANT: MID OCEAN BRANDS B.V.

STANDARD(S) : Please refer to the following page(s).

DATE OF ISSUE : May 19, 2025

Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.





Applicant : MID OCEAN BRANDS B.V.

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

Report on the submitted sample(s) said to be:

Sample Name : Wooden look sunglasses

Material Plastic

Model : MO9022

Vendor Code : 101191

Country of Origin : CHINA

Country of Destination : EUROPE

Cat. No. : Cat.3

Filter Type : Uniform Lenses

Frame Color : Wood

Lenses Color : Mirror Blue Age Grading : Adults

Sample Received Date : Apr. 29, 2025

Testing Period : Apr. 29, 2025 to May 19, 2025

Test Requested : Selected test(s) as requested by client.

Test Requested: Conclusion

ISO 12312-1: 2022 Eye and face protection — Sunglasses and related eyewear

- Part 1: Sunglasses for general use

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

Pass

Approved by: Len

Suhongliang, Leon

Technical Director

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Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	May 09, 2025	Invalid	Initial release
S1	May 14, 2025	Invalid	Modify sample name, model and picture
S2	May 15, 2025	Invalid	Modify test result and picture
S3	May 19, 2025	Valid	Modify test result



The photo of the sample



The photo of AGC03778250405-001S3 is for use only with the original report.

Test Point Description

Test point	Test point description
1	Sunglasses



Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%

Tests Conducted Summary

Note: #1 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. Sunglasses shall be designed, manufactured and packaged in such way that, when used under normal conditions, they will not compromise the health or safety of the wearer. The risks posed by substances leaking or evaporating from the sunglasses that can come into prolonged contact with the wearer shall be reduced by the manufacturer to within the limit of any applicable regulatory requirement.

Special attention shall be given to substances that are allergenic, carcinogenic, mutagenic or toxic to reproduction. Substances recommended for cleaning, maintenance or disinfection shall be known to be unlikely to have any adverse effect upon the wearer, when applied in accordance with the instructions given in the information to be supplied by the manufacturer.

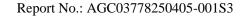
Manufacturers/suppliers shall perform an appropriate risk analysis on potentially harmful substances contained in the sunglasses that, when the sunglasses are used under normal conditions, the health (and safety) of the wearer shall not be compromised.

The following are examples of documents that represent the appropriate information: a) specification of the material(s); b) safety data sheets relating to the materials;

- c) information relating to the suitability of the materials for use in medical devices, or other relevant applications;
- d) information relating to toxicological, allergenic, carcinogenic, toxic to reproduction, or mutagenic investigations on the materials.

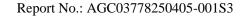
Tests Conducted Summary

R	REQUIREMENT	S (According to ISO 12312-1)		TESTING	
	Test item(s)			According to Clause	RESULTS
	Construction		4.1	ISO 18526-3:2020, 6.1	P
	Filter material and surface quality		4.2	ISO 18526-3:2020, 6.6	P
Construction and materials	Physiological co (only test Nickel standard)	mpatibility release, refer to EN 16128	4.3	EN 16128:2015	NA
		For adult's sunglasses: 1-M		ISO 18526-4	P
	Head forms	For children's: 1-C6 or 1-C12	4.4		NA
Transmittance	Transmittanss	Filter categories			Cat.3
	Transmittance and filter	UV requirements	5.2	ISO 18526-2:2020, 7	P
	categories	Enhanced infrared absorption (If claim)	3.2	200 10020 2.2020, 7	NA





I	REQUIREMEN'	ΓS (According to ISO 12312-1)		TESTING	
	Test item(s)			According to Clause	RESULTS
	Uniformity of lu	uminous transmittance	5.3.1	ISO 18526-2:2020, 7	P
		Filter categories	5.3.2.1	ISO 18526-2:2020, 7	P
General	Requirements	Spectral transmittance	5.3.2.1	ISO 18526-2:2020, 7	P
transmittance requirements	for road use and driving	Detection of signal lights	5.3.2.1	ISO 18526-2:2020, 11	P
	and driving	Road use (including driving) in twilight or at night	5.3.2.2	ISO 18526-2:2020, 16.3.2	NA
	Wide angle scat	tering	5.3.3	ISO 18526-2:2020, 14.1	P
	Photochromic fi	ilters	5.3.4.1	ISO 18526-2:2020, 16.	NA
	Polarizing filter	s	5.3.4.2	ISO 18526-2:2020, 15	NA
	Gradient filters		5.3.4.3	ISO 18526-2:2020, 7	NA
Additional transmittance	Electro-optical	General	5.3.4.4.1	ISO 18526-2:2020, 17.11 and Annex E.	NA
requirements		Default mode	5.3.4.4.2		NA
for specific		Reaction time	5.3.4.4.3	ISO 18526-2:2020, 17.11	NA
filter types	sun glare filter, electro-optical	Photosensitive seizures	5.3.4.4.4		NA
	sunglass filter	Combined uniformity and angular dependence of luminous transmittance	5.3.4.4.5	ISO 18526-2:2020	NA
		Narrow angle scatter	5.3.4.4.6	ISO 18526-2:2020, 14.2	NA
	Blue-light absor	rption/transmittance	5.3.5.1	ISO 18526-2:2020, 7	NA
Claimed	UV absorption/t	transmittance	5.3.5.2	ISO 18526-2:2020, 7	NA
transmittance	Antireflective c	oated sunglasses	5.3.5.3	ISO 18526-2:2020,13	NA
properties	Reduced reflect	ion coated sunglasses	5.3.5.4	ISO 18526-2:2020,13	NA
	Enhanced infrar	red absorption	5.3.5.5	ISO 18526-2:2020, 7	NA





]	REQUIREMENTS (According to ISO 12312-1)		TESTING	
	Test item(s)	According to Clause	According to Clause	RESULTS
	Spherical and astigmatic power	6.1	ISO 18526-1:2020, 6.1	P
Refractive power	Spatial deviation(If during the measurements spherical and astigmatic power, a doubling or other aberration of the image is observed)	6.2	ISO 18526-1:2020, 6.3	NA
	Prism imbalance (relative prism error)	6.3	ISO 18526-2:2020, 6.2	P
	Minimum robustness of filters(remark: this test is not necessary if the sunglasses meet 7.3 or 7.6)	7.1	ISO 18526-3:2020, 7.2.1	P
	Frame deformation and retention of filters	7.2	ISO 12311, 6	P
	Impact resistance of sunglasses, strength level 1 (optional specification)	7.3	ISO 18526-3:2020, 7.3.1	NA
Robustness	Increased endurance of sunglasses (optional specification)	7.4	ISO 12311, 9.7	NA
	Resistance to perspiration(optional specification)	7.5	ISO 12311, 9.10	NA
	Impact resistance of sunglasses, strength level 2 (optional specification)	7.6	ISO 18526-3:2020, 7.3.1	NA
	Impact resistance of sunglasses, strength level 3 (optional specification)	7.6	ISO 18526-3:2020, 7.3.2	NA
Resistance to	solar radiation	8	ISO 18526-3:2020, 6.8.2	P
Resistance to	ignition	9	ISO 18526-3:2020, 6.10	P
Resistance to	abrasion (Optional specification)	10	ISO 8980-5	NA
Protective	Coverage area	11.1		P
requirements	Temporal protective requirements(Apply for Cat.4)	11.2		NA
Information and labeling	Information to be supplied with each pair of sunglasses	12.1		P
	Additional information	12.2		r

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



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

	Defects							
Sample No.	Construction		Filter Material and Surface Quality		Filter Material and Surface Quality		Comment	Result
	Observed	Absent	Observed	Absent				
1		X		X		Р		

Requirements:

- 1. Construction: Areas of the sunglass, including the frame and, if in a rimless or semi-rimless style, the edges of the filters, that may come into contact with the wearer during intended use 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 30 mm diameter centred on the reference point that could impair vision, e.g. bubbles, scratches, inclusions, dull spots, pitting, mould marks, notches, reinforced areas, specks, beads, water specks, pock marks, gas inclusions, splintering, cracks, polishing defects or undulations. If this 5 mm wide portion around the edge of the test sample intrudes into this circular area, then this intrusion shall be excluded from testing.

Transmittance and filter categories — Clause 5.2

Sample No.: 1				
Test Items	Requirements	Left	Right	Result
	For Cat. 0: 80.0~100			
	For Cat. 1: 43.0~80.0			
rv (380~780)nm (%)	For Cat. 2: 18.0~43.0	9.7	9.8	_
	For Cat. 3: 8.0~18.0			P
	For Cat. 4: 3.0~8.0			
Filter Cat.	Claimed: Cat.3	Cat.3	Cat.3	
τ _{SUVB} (280~315)nm (%)	☐ For Cat. 0,1: $\leq 0.05\tau_{V D65}$ ☐ For Cat. 2: 1.0% absolute or $0.05\tau_{VD65}$ whichever is greater; ☐ For Cat. 3, 4:1.0% absolute	0.0	0.0	P
τ _{SUVA} (315~380)nm (%)	☐ For Cat. 0,1: $\leq \tau v_{D65}$; \boxtimes For Cat. 2, 3: $\leq 0.5 \tau v_{D65}$ ☐ For Cat. 4:1.0% absolute or 0.25 τv_{D65} whichever is greater;	0.0	0.0	P
τ _{Sb} (380~500)nm (%)			7.1	Only R

Measurement Uncertainty (if necessary):



Uniformity of luminous transmittance — Clause 5.3.1

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Test Items	Requirements	Left	Right	Result
Difference within filter (%) (relative to higher value)	The relative difference in the luminous transmittance value: □ For Cat. 0, 1, 2, 3: ≤15% □ For Cat. 4: ≤20%	4.9	3.9	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: ☐ For gradient-tinted filters: ≤20% ☐ For all other types: ≤15%	1.	0	Р

Measurement Uncertainty (if necessary):

Requirements for road use and driving — Clause 5.3.2

Sample No.: 1						
Test Items	Requirements	Left	Right	Result		
Categories	Filters suitable for road use and driving shall be categories 0, 1, 2 or 3	Cat.3	Cat.3	P		
Spectral transmittance (475~650)nm (%)	≧0.2τν _{D65}	0.84tv _{D65}	0.85tv _{D65}	Р		
Red Signal	≧0.80	1.34	1.34	P		
Yellow Signal	≧0.60	1.13	1.13	P		
Green Signal	≧0.60	0.92	0.92	P		
Blue Signal	≧0.60	0.99	0.99	P		
Road use (including driving) in twilight or at night (%)	≧75.0	9.7	9.8	NA		

Measurement Uncertainty (if necessary):

Cample No		Wide Angle Sca	attering (%)	Dogul4
Sample No.) .	Left	Right	Result
1		1.4	1.3	P

Requirements:

At the reference point, the wide-angle scatter of the filters in the condition as supplied by the manufacturer shall not exceed the value of 3 %.

Measurement Uncertainty (if necessary):

Spherical and Astigmatic Power—Clause 6.1

Sample No.: 1						
Test Items	Requirements	Left	Right	Result		
Spherical Power (D)	± 0.12D	0.07	-0.01	P		
	The difference between the spherical powers shall not exceed 0.18 D 0.08		P			
Astigmatic Power (D)	≦0.12D	0.00	0.04	P		

Measurement Uncertainty (if necessary):

Prism imbalance (relative prism error) — Clause 6.3

Sample No.	Requirements		Measured (cm/m)	Result
		⊠ Base Out:<1.00cm/m		D
1	Horizontal	☐ Base In:<0.25cm/m	0.07	P
	Vertical	<0.25 cm/m	0.17	P

Measurement Uncertainty (if necessary):



Minimum robustness of filters — Clause 7.1						
	Defects		D			
Sample No.		Comment	Result			

Sample No	Defects		Commont	Result	
Sample No.	Observed	Absent	Comment	Kesuit	
1		X		P	

Requirements:

None of the following defects shall appear on filters:

- Filter fracture;
- b. Filter deformation;

Note:

- 1. For clip-ons neither a) nor b) are applicable.
- 2. This test is not necessary if the sunglasses meet Impact resistance of sunglasses, strength level 1, or level 2, or Level 3.

Frame deformation and retention of filters —Clause 7.2

Sample No.	Boxed Center Distance, C	Residual Deformation	Deformation Percentage	Struc			Result		
	(mm)	X(mm)	Φ(%)	Pass	Fail Pass		Fail		
1	73.88	0.52	0.7	X		X		P	

Requirements:

- 1. Be permanently deformed from its original configuration by not more than 2% of the distance C,. Deformation percentage, Φ; Calculation: Φ (%)=X/C*100
- 2. No fracture or crack at any point;
- 3. No filter shall be displaced from the frame.

Measurement Uncertainty (if necessary):



Resistance to Radiation — Clause 8

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Test Items	Requirements	Left	Right	Result			
Sample No.: 1							
	☐ For Cat. 0:±3%;						
Relative change of	☐ For Cat. 1:<±5%		-1.0	P			
luminous	☐ For Cat. 2: ±8%	0.0					
transmittance(%)	⊠ ForCat.3&4:±10%						
Wide angle	After exposure, the value of wide angle	1.5	1.5	D			
scattering (%)	scattering (%) scattering shall not exceed the limit value of 3%		1.5	Р			
	\square For Cat. 0,1: $\leq 0.05 \tau v_{D65}$						
$ au_{ m SUVB}$	\square For Cat. 2: 1.0% absolute or 0.05 τ v _{D65}		0.0	ъ			
(280~315)nm (%)	whichever is greater.	0.0		P			
	⊠ For Cat. 3, 4:1.0% absolute						
	\square For Cat. 0,1: $\leq \tau_{\text{V D65}}$;						
$ au_{ m SUVA}$	⊠ For Cat. 2, 3:≦0.5τν _{D65}	0.0		70			
(315~380)nm (%)	☐ For Cat. 4:1.0% absolute or 0.25τ _{V D65}	0.0	0.0	P			
	whichever is greater;						

Measurement Uncertainty (if necessary):

Ignition — Clause 9

	Continued (Combustion					
Sample No.	Yes	No	Comment	Result			
1	X P						
Requirements: The filters and frame shall be no continued combustion after withdrawal of the test rod.							



Sample No.:	1					
Test items		Requi	rement	Left	Right	Result
Cover two ellipses	Sunglasses shall contain each side of the centain with the centain each side of the centain each	ntre of the bridger: (40±1)mm	s, and symmetrically placed on ge of the frame: □For Children': -horizontal diameter: (34±1)mm -vertical diameter: (24±1) mm	Meet	Meet	P
*Prevent UV	τ _{SUVB} (280~315)nm (%)	□For Cat whicheve	. 0,1:≦0.05τv _{D65} . 2:1.0% absolute or 0.05τv _{D65} er is greater . 3, 4: 1.0% absolute	0.0	0.0	P
radiation	τ _{SUVA} (315~380)nm (%)		. 0,1: ≦τν _{D65} ; t. 2, 3: ≦0.5τν _{D65} t. 4:1.0% absolute or 0.25τν _{D65} er is greater;	0.0	0.0	P
Note: 1. Adulta 2. Childa	s' headform: $\boxtimes 1$ -1	M, PD=64mm C6, PD= 52 mr	\square As defined by the herm \square 1-C12, PD=58mm.	eadform uti	lized, PD=()mm

Measurement Uncertainty (if necessary):

Remark: *Prevent UV radiation measured point: Any point within specified two elliptical regions.

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

Assessment was made against a level of 100% UV protection, in which the spectral transmittance was examined within a range of 280nm - 400nm.

Sample No.	Westernal and Alexandria	Maximum Spectra	Result				
	Wavelength (nm)	Left	Right	Kesuit			
1	280-400	0.0	0.0	P			
Requirements:							
Maximum spectral transmittance shall not exceed 0.5%.							

Measurement Uncertainty (if necessary):



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*** End of Report ***