

Test Report

No. 1243-PZA-20 Part 2
Rev. 0

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Test report contains	Main part and 1 annex
Number of pages	5
Product	Spectacle
Arrival of samples	2020-05-25
Period of testing	2020-06-07 to 2020-09-10
Reference standard	ANSI/ISEA Z87.1-2020
Remarks	None

This test report relates to the mentioned test samples. Without the permission of the DIN CERTCO test centre Nürnberg this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any certification mark.

Nürnberg, 2020-09-10

Compiled by:

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- Test Engineer -

Reviewed by:

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- Head of Testing Laboratory -

Test objects, tests and results


Based on the tables as written in the standard ANSI/ISEA Z87.1, the main part assigns the test samples to the named tests. Each individual test result is documented in the annexes according to the named standards.

Signs and symbols:

- + meet the requirements
- ***do not meet the requirements***
- / not tested or not applicable
- Ab interruption of the testing sequence

Unless stated otherwise, the measurements have been carried out in the main viewing point of the samples and, in the case of lenses with corrective power, at the applicable reference point.

Samples and summary of all test results

Type:	Spectacle, type "MYLON GUARD ONE"					
Test mark:	12432-PZA-20					
Number of delivered parts: 26			Number of test samples: 6			
						
Test-sequence	Requirements	According to		According to		Sample 0243-1 to 0243-2, 0243-19 to 0243-22
		ANSI	Clause	ANSI	Clause	
1	Instructions	Z87.1	10	Z87.1	10	+
2	Description of the product and physical requirements	Z87.1	5.2	Z87.1	5.2	+
3	Optical quality	Z87.1	5.1.1	Z87.1	9.1	+
4	Transmittance	Z87.1	5.1.2	Z87.1	9.2	+
5	Haze	Z87.1	5.1.3	Z87.1	9.3	+
6	Refractive power, astigmatism, and resolving power	Z87.1	5.1.4	Z87.1	9.4	+
7	Prismatic power	Z87.1	5.1.4	Z87.1	9.5	+
8	Drop ball impact resistance	Z87.1	5.2.1	Z87.1	9.6	+
9	Ignition	Z87.1	5.2.2	Z87.1	9.7	+
10	Corrosion resistance	Z87.1	5.2.3	Z87.1	9.8	/*
11	Minimum coverage area	Z87.1	5.2.4	Z87.1	5.2.4	+
12	Frames for removable lenses	Z87.1	5.4.4	Z87.1	5.4.4	+
Individual results of each test sample see annex 1						

*No metal parts

Marking:

Frame	Mylon MADE IN GERMANY CE Mylon GUARD ONE
Oculars	None



ANNEX 1

Type:	Spectacle, type "MYLON GUARD ONE"
Test mark:	12432-PZA-20

Description of the type

Condition of the test item at delivery	Undamaged
Frame:	Material: Plastics Colour: White, untinted
Oculars:	Material: Plastics Colour: Untinted Centre thickness: 1.7 mm Dimension: 151 mm x 70 mm
Instructions:	Available and complete
Physical Requirements:	Protectors are free from projections, sharp edges or other defects, which are likely to cause discomfort or injury during use.
Replaceable lenses:	Fulfill the requirements
Minimum Coverage Area:	Fulfill the requirements

Type:	Spectacle, type "MYLON GUARD ONE"
Test mark:	12432-PZA-20

Optical quality test, transmittance, haze, refractive power, astigmatism, resolving power, prism and prism imbalance

Test↓	Sample →		0243-1	0243-2
Optical quality			+	/
Luminous transmittance τ_{v1} based on CIE source A	R	%	/	90.7
	L		/	91.5
Haze	R	%	0.24	/
	L		0.22	/
Refractive Power	R	D	-0.02	/
	L		-0.03	/
Astigmatism	R	D	0.01	/
	L		0.00	/
Resolving power	R		+	/
	L		+	/
Prism imbalance horizontal		Δ	0.20 Base out	/
Prism imbalance vertical		Δ	0.03	/
Prism	R	Δ	0.15	/
	L		0.05	/

Drop ball impact resistance

Sample	Impact point	Comments
0243-19	1	+
0243-20	2	+
0243-21	1	+
0243-22	2	+

Impact point 1: left eye frontal
Impact point 2: right eye frontal

Ignition

Test↓	Sample →	0243-22
Ignition		+

