Test Report 3209045

[redacted]

Introduction.

This report has been prepared by PI Assessor Lead Ltd to the specific details below:

Customer Details	
Company:	[redacted]
Site Visit:	Testing Samples Submitted
Site Address:	[redacted]
Contact:	Steve
Telephone:	[redacted]
Registrations:	UK 1234/12
Criteria:	Standard Criteria Applied
	Criteria
Product:	MP200
Delivery Req.:	Return On Entry

The scope has been approved for issue by Mr A Player - Testing Team Manager

Signature:	Issue Date: 8 June 2012

Objectives.

The objective of this test was to obtain evidence on samples of the submitted item that have been fabricated, if ALL as specified. This is to enable the manufacturer to claim conformity to the standard listed above. Where applicable, the test results will be used to provide evidence of the ability to comply with the CE mark and to enable the sample each in relation to the CE mark/assessment/declaration.

Product Scope:

Product Type: 1
Goggles mark 2
Goggles mark 3

Report Summary.

The objective was to determine whether the item met the testing requirements of Clause 5&10.
The samples submitted complied with the limited requirements of the test as detailed in clause 5.

Test Samples

Sample No.	Description
1	[redacted] - 1 x goggle model 001 2 x goggle model 002 1 x goggle model 003

Test Requirements.

EN166:2002/AC:2009 Table 1 Frames Eye Protector

Ref	Test Requirement	Result
5	**General requirements**	
	Each lens is marked so that the front, orientation, direction of wear or other reference, which	model 001 Yes
	is necessary for correct use, is clear.	model 002 Yes
5.2	**Optical requirements**	
	The optical of the eye protector and / or as in contact with the user shall be in accord of minimum errors	N/T
	as far as is reasonably practicable.	
	Note:	
5.3	**Manufacturer's responsibility to use information set forth in clause and information when it**	
	is in contact with the user's skin or of the protector.	
5.3.1	**Innocuousness**	model 001 Yes
	Lens Frame, when used as the part in good health, in materials, shall be of clause 12 etc.	model 002 Yes
	Lens which emerge the materials have not come into contact with the user's head	model 003 Yes
5.3.2	**Cleaning and disinfection**	model 001 Yes
5.4	**Resist., protection and optional requirements**	
5.4.1	**Optical requirements**	model 001 Yes
5.4.2	Frame/lens, when used as the part in good health, in materials, shall be of clause 12 etc.	model 002 Yes
	Lens which emerge the materials have not come into contact with the user's head	model 003 Yes
	Field of vision	model 001 Yes
	The size of the "field of vision is defined in accordance with the appropriate head form described in clause 7.2 of	model 002 Yes
	EN 168:2002.	model 003 Yes

Test Samples

Sample No.	Description
1	[redacted] - 1 x goggle model 001 2 x goggle model 002 1 x goggle model 003

Test Requirements.

EN166:2002/AC:2009 Table 1 Frames Eye Protector

Ref	Test Requirement	Result
5.4.3	**Optical requirements**	
5.4.3.1	**Resistance to ignition and, potentially reflective powers**	
5.4.3.2	**Resistance to surface cracking on the eye**	
	For lens not exposed to surface tested shall be in accordance with clause 5.2 of EN 167:2001, and the	N/A
	requirements of clause 5.2 of EN 167:2001 are met.	
	Not applicable to style of eye protector.	
5.4.3.3	**Provided scratches and unscratched scratches contrary both same**	
	Shall be in accordance with clause 5.3 of EN 167:2001, and the requirements of clause 5.3 of EN 167:2001 are	model 001 Pass
	met.	model 002 Pass
	Shall be in accordance with clause 5.3 of EN 167:2001, and the requirements of clause 5.3 of EN 167:2001 are	model 003 Pass
	met.	
	Not applicable to style of eye protector.	
5.4.4	**Protection against droplets and splashes of liquids**	
	Shall be in accordance with clause 5.4 of EN 167:2001, and the requirements of clause 5.4 of EN 167:2001	
	are met.	
	The results shall be considered to be satisfactory if:	
	- the mean value of the transmittance factor after the abrasive test shall be less than or equal to the value	
	- after exposure to droplets of a liquid, the mean value of the transmittance factor shall be less than or	
	equal to the value	
	- any surface defect up to a distance of 8 mm from the edges of the eye protector	
		model 001 Pass
		model 002 Pass
		model 003 Pass
5.5	**Lateral Protection**	model 001 N/A
	Lens Frame, in accordance with clause 5.5 of EN 166:2001.	model 002 N/A
		model 003 N/A
Results note	**Actual test results**	
	See Table 1 - 3209 045.PM2	

Ref	Test Requirement	Result
5.4.3	**Optical requirements**	
5.4.3.1	**Resistance to ignition and, potentially reflective powers**	
5.4.3.2	**Resistance to surface cracking on the eye**	
	For lens not exposed to surface tested shall be in accordance with clause 5.2 of EN 167:2001, and the requirements of clause 5.2 of EN 167:2001 are met.	N/A
	Not applicable to style of eye protector.	
5.4.3.3	**Provided scratches and unscratched scratches contrary both same**	
	Shall be in accordance with clause 5.3 of EN 167:2001, and the requirements of clause 5.3 of EN 167:2001 are met.	model 001 Pass model 002 Pass
	Shall be in accordance with clause 5.3 of EN 167:2001, and the requirements of clause 5.3 of EN 167:2001 are met.	model 003 Pass
	Not applicable to style of eye protector.	
5.4.4	**Protection against droplets and splashes of liquids**	
	Shall be in accordance with clause 5.4 of EN 167:2001, and the requirements of clause 5.4 of EN 167:2001 are met.	
	The results shall be considered to be satisfactory if:	
	- the mean value of the transmittance factor after the abrasive test shall be less than or equal to the value	
	- after exposure to droplets of a liquid, the mean value of the transmittance factor shall be less than or equal to the value	
	- any surface defect up to a distance of 8 mm from the edges of the eye protector	
		model 001 Pass model 002 Pass model 003 Pass
5.5	**Lateral Protection**	model 001 N/A
	Lens Frame, in accordance with clause 5.5 of EN 166:2001.	model 002 N/A model 003 N/A
Results note	**Actual test results**	
	See Table 1 - 3209 045.PM2	

Glossary of Terms.

BSEN: European Norms for the regions of BSI subscribers.
BSI: British Standards Institution, the National Standards Body of the United Kingdom.
CE mark: Complies "Mark" placed on the item after successful conformity assessment.
PPE: Personal Protective Equipment as defined under Directive 2 Item provided to the user for protection.
Type Test: Test carried out to check the design of a representative sample.
Product: Equipment manufactured to which the Directive applies.
Manufacturer: Person responsible for the design and manufacture of the product.
N/T: Test carried out to check the design of a representative sample.
N/A: Test carried out to check the design of a representative sample.

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Supporting Data – Test Results

Table A – BS EN 166 2002

Test Results.

CLAUSE 7.1.2.1.2 OPTICAL REQUIREMENTS (Unclear Without Corrective Effect)
Physiological and unimportant scatters covering both eyes
Requirement

Sample Ref.	Optical Power (D)	Astigmatism (D)	Difference in Prismatic Effect (Prism D)	
			Horizontal	Vertical
1	0.38	0.25	0.25	0.25
2	0.38	0.25	0.25	0.25
3	0.38	0.25	0.25	0.25

Measurements of Spherical and Astigmatic Power and Difference in Prismatic Refractive Power
Three results made for the centre position (Table 1 EN 167:2001 Clause 3)

model 001

Sample Ref.	Optical Power (D)		Astigmatism (D)		Difference in Prismatic Effect (Prism D)	
	Measured	Tolerance	Measured	Tolerance	Measured Horizontal	Measured Vertical
1	0.38	0.25	0.25	0.25	0.25	0.25
2	0.38	0.25	0.25	0.25	0.25	0.25
3	0.38	0.25	0.25	0.25	0.25	0.25

N = Number(s) each readings S = Surface back readings

Optical Class 1
(1) Prism deviations per metre.

CLAUSE 7.1.2.1.2 OPTICAL REQUIREMENTS (Unclear Without Corrective Effect)
Physiological and unimportant scatters covering both eyes
Requirement

Sample Ref.	Optical Power (D)	Astigmatism (D)	Difference in Prismatic Effect (Prism D)	
			Horizontal	Vertical
1	0.38	0.25	0.25	0.25
2	0.38	0.25	0.25	0.25
3	0.38	0.25	0.25	0.25

Measurements of Spherical and Astigmatic Power and Difference in Prismatic Refractive Power
Three results made for the centre position (Table 1 EN 167:2001 Clause 3)

model 002

Sample Ref.	Optical Power (D)		Astigmatism (D)		Difference in Prismatic Effect (Prism D)	
	Measured	Tolerance	Measured	Tolerance	Measured Horizontal	Measured Vertical
1	0.38	0.25	0.25	0.25	0.25	0.25
2	0.38	0.25	0.25	0.25	0.25	0.25
3	0.38	0.25	0.25	0.25	0.25	0.25

N = Number(s) each readings S = Surface back readings

Optical Class 1
(1) Prism deviations per metre.

CLAUSE 7.1.2.1.2 OPTICAL REQUIREMENTS (Unclear Without Corrective Effect)
Physiological and unimportant scatters covering both eyes
Requirement

Sample Ref.	Optical Power (D)	Astigmatism (D)	Difference in Prismatic Effect (Prism D)	
			Horizontal	Vertical
1	0.38	0.25	0.25	0.25
2	0.38	0.25	0.25	0.25
3	0.38	0.25	0.25	0.25

Measurements of Spherical and Astigmatic Power and Difference in Prismatic Refractive Power
Three results made for the centre position (Table 1 EN 167:2001 Clause 3)

model 003

Sample Ref.	Optical Power (D)		Astigmatism (D)		Difference in Prismatic Effect (Prism D)	
	Measured	Tolerance	Measured	Tolerance	Measured Horizontal	Measured Vertical
1	0.38	0.25	0.25	0.25	0.25	0.25
2	0.38	0.25	0.25	0.25	0.25	0.25
3	0.38	0.25	0.25	0.25	0.25	0.25

N = Number(s) each readings S = Surface back readings

Optical Class 1
(1) Prism deviations per metre.

7.1.3 Protection Against Droplets and Splashes of Liquid **model 001**

Requirement	
Requirements for eye appeal of suitable Liquidizer and collection of fluid (for EyeProtect) shall be tested in accordance with the methods specified in Clause 12 of BS EN 168:2001	Pass

7.1.3 Protection Against Droplets and Splashes of Liquid **model 002**

Requirement	
Requirements for eye appeal of suitable Liquidizer and collection of fluid (for EyeProtect) shall be tested in accordance with the methods specified in Clause 12 of BS EN 168:2001	Pass

7.1.3 Protection Against Droplets and Splashes of Liquid **model 003**

Requirement	
Requirements for eye appeal of suitable Liquidizer and collection of fluid (for EyeProtect) shall be tested in accordance with the methods specified in Clause 12 of BS EN 168:2001	Pass

7.1.5 Lateral Protection **model 001:**

Requirement	
Include Ref. 4.4.2.1 When assessed, the eye protector covered the lateral protection region as the Guardrail is in accordance with Clause 5.5 of EN 166:2001.	Pass

(1) Adjusted by 90 or as required to provide test 15 or Guardrail.

7.1.5 Lateral Protection **model 002:**

Requirement	
Include Ref. 4.4.2.1 When assessed, the eye protector covered the lateral protection region as the Guardrail is in accordance with Clause 5.5 of EN 166:2001.	Pass

(1) Adjusted by 90 or as required to provide test 15 or Guardrail.

7.1.5 Lateral Protection **model 003:**

Requirement	
Include Ref. 4.4.2.1 When assessed, the eye protector covered the lateral protection region as the Guardrail is in accordance with Clause 5.5 of EN 166:2001.	Pass

(1) Adjusted by 90 or as required to provide test 15 or Guardrail.

Photographs of models submitted:

Model 001

Model 002

Model 003

*** End of Report ***