

02/7/2014

Sabastian Barriga  
Vicsa Safety  
Casa Matriz  
Pintor Cicarelli  
683-San Joaquin, Chile

Intertek Test Report Number: G101529224CRT-007

Dear Sabastian:

Intertek has completed the evaluation of your eyewear model Runner AF, manufactured by Vicsa Safety to the Rating of Z87+. The eyewear was evaluated to the requirements of **American National Standard for Occupational and Educational Personal Eye and Face Protection Devices, ANSI/ISEA Z87.1-2010**. The test samples were received on 2/12/14 in new condition. The evaluations were performed at Intertek in Cortland, NY on 2/14/14 through 2/28/14. The results of these tests are as indicated below.

**Sample(s) provided for Evaluation:** Runner AF

<u>Tests Completed:</u>	<u>Test Date(s):</u>	<u>Section</u>	<u>Results</u>
General Requirements (All Protectors)	2/28/14	5	PASS
Impact Protector Requirements (Z87+)	2/14/14	6	PASS

**NOTE: See Page 3-8 for the representative data sheets for the product evaluated.**

This test report concludes the work for your project outlined under Intertek Quote No: 500498525. If there are any questions regarding this report please contact the undersigned at 607-753-6711.

Tested by:



Andrew Rulison  
Technician 1  
Performance Group

Reviewed by:



Chad Morey  
Engineer  
Performance Group



An independent organization testing for safety, performance, and certification.

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Intertek, Inc.

3933 US Route 11, Cortland, NY 13045 USA  
Telephone: +1 607-753-6711 Fax: +1 607-756-9891 Web: [www.intertek.com](http://www.intertek.com)

# INTERTEK TEST DATA SHEETS

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Client:	<u>Vicsa Safety</u>	Engineer:	<u>Chad Morey</u>
Job No.:	<u>G101529224</u>	Tested By:	<u>Andrew Rulison</u> Date: <u>3/07/14</u>
Product:	<u>Spectacle</u>	Reviewed By:	<u>Chad Morey</u> Date: <u>3/07/14</u>
Model No.:	<u>Runner AF</u>	Standard:	<u>ANSI/ISEA Z87.1-2010</u>

Sample Control

Number: **CRT1402071156-001**

## TRANSCRIBED TEST DATA

Type:	Spectacle: X	Goggle:	Faceshield:	WH Lenses:	FF Respirator:	Removable:
Style:	Plano:	Rx:	Photochromatic:	Tinted:	Clear:	Non-Removable:

### Table of Contents:

Required:	Page(s):	Section:	Test Description:
(X)	8	N/A	Intertek Report No: G101529224CRT-007
(X)	1	N/A	Table of Contents
(X)	1	N/A	Equipment List

### Equipment List:

Used:	Equipment:	Manufacturer:	Model No.:	Control No.:	Cal. Due Date:
X	Headform	Inspec	EN 168:2001 Medium Head (50 <sup>th</sup> percentile adult male)	N/A	N/A
X	Gram Scale	Ohaus	Adventurer	S253	1/24/15
X	Calipers	Mitu	0-6"	N895	4/30/14
X	Tape Measure	Lufkin	233ME	R179	4/17/14
X	Thermocouple / Meter / Rod	Omega	OM	T-288053	8/28/14
X	Stopwatch	FS	14-649-55	N1363	4/3/14
X	High Mass Impactor (pointed projectile)	Intertek	Z87-2010 High Mass	J143	3/13/14
X	Air Cannon	Basic Eng	HVIT	N740	8/27/14
X	Needle Penetrator	Intertek	Z87-2010 Penetrator	J148	CAT3
X	Drop Ball	Intertek	Z87-2010 Drop Ball	J147	3/1/14
X	Hazemeter	Gardner	XL211	N328	Per Use
X	100 ft Goniometer	NA	NA	N060	Nov-2014
X	8x Telescope	NA	NA	NA	Per Use
X	Std. Diopter Set	NA	NA	NA	NA

# INTERTEK TEST DATA SHEETS

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Client:	Vicsa Safety	Engineer:	Chad Morey		
Job No.:	G101529224	Tested By:	Andrew Rulison	Date:	3/07/14
Product:	Spectacle	Reviewed By:	Chad Morey	Date:	3/07/14
Model No.:	Runner AF	Standard:	ANSI/ISEA Z87.1-2010		

Sample Control

Number: **CRT1402071156-001**

## TRANSCRIBED TEST DATA

Type:	Spectacle: X	Goggle:	Faceshield:	WH Lenses:	FF Respirator:	Removable:
Style:	Plano:	Rx:	Photochromatic:	Tinted:	Clear:	Non-Removable:

### Section 5, General Requirements (All Protectors)

Section (Test)	Requirement	Results	Compliance																					
5	General Requirements (All Protectors)																							
5.1.1 (9.1)	Optical Quality: Lenses shall be free of striae, bubbles, waves and other visible defects which would impair their optical quality	<table><tr><td>Sample #:</td><td colspan="2">1</td></tr><tr><td>Defects:</td><td colspan="2">NO</td></tr></table>	Sample #:	1		Defects:	NO		PASS															
Sample #:	1																							
Defects:	NO																							
5.1.2 (9.2)	Luminous Transmission:  Clear lenses shall have a luminous transmission of not less than 85%.	<table><tr><td colspan="3">Laboratory Conditions:</td></tr><tr><td>Req'd:</td><td>Temperature Range 18-28 °C (65-82 °F)</td><td>Humidity Range 35-65 %</td></tr><tr><td>Actual:</td><td>25°</td><td>18</td></tr></table> <table><tr><td>Sample #:</td><td colspan="2">1</td></tr><tr><td colspan="3">Percent Transmittance</td></tr><tr><td>Left</td><td colspan="2">Right</td></tr><tr><td>10.58</td><td colspan="2">10.27</td></tr></table>	Laboratory Conditions:			Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %	Actual:	25°	18	Sample #:	1		Percent Transmittance			Left	Right		10.58	10.27		PASS
Laboratory Conditions:																								
Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %																						
Actual:	25°	18																						
Sample #:	1																							
Percent Transmittance																								
Left	Right																							
10.58	10.27																							
5.1.3 (9.3)	Haze:  Clear plano lenses shall not exhibit more than 3% haze.	<table><tr><td colspan="3">Laboratory Conditions:</td></tr><tr><td>Req'd:</td><td>Temperature Range 18-28 °C (65-82 °F)</td><td>Humidity Range 35-65 %</td></tr><tr><td>Actual:</td><td>25°</td><td>18</td></tr></table> <table><tr><td>Sample #:</td><td colspan="2">1</td></tr><tr><td colspan="3">Percent Haze</td></tr><tr><td>Left</td><td colspan="2">Right</td></tr><tr><td>0.70</td><td colspan="2">0.64</td></tr></table>	Laboratory Conditions:			Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %	Actual:	25°	18	Sample #:	1		Percent Haze			Left	Right		0.70	0.64		PASS
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Actual:	25°	18																						
Sample #:	1																							
Percent Haze																								
Left	Right																							
0.70	0.64																							

# INTERTEK TEST DATA SHEETS

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Client:	Vicsa Safety	Engineer:	Chad Morey
Job No.:	G101529224	Tested By:	Andrew Rulison
Product:	Spectacle	Reviewed By:	Chad Morey
Model No.:	Runner AF	Standard:	ANSI/ISEA Z87.1-2010

Sample Control  
Number:

**CRT1402071156-001**

## TRANSCRIBED TEST DATA

Type:	Spectacle: X	Goggle:	Faceshield:	WH Lenses:	FF Respirator:	Removable:
Style:	Plano:	Rx:	Photochromatic:	Tinted:	Clear:	Non-Removable:

Section (Test)	Requirement	Results	Compliance																																																		
5	General Requirements (All Protectors)																																																				
5.1.4 (9.4, 9.5)	Refractive Power, Astigmatism, Resolving Power, Prism and Prism Imbalance for Plano Protectors:	<div>Sample #: 1</div> <div>Laboratory Conditions:<table><tr><td>Req'd:</td><td>Temperature Range 18-28 °C (65-82 °F)</td><td>Humidity Range 35-65 %</td></tr><tr><td>Actual:</td><td>25°</td><td>18</td></tr></table></div> <div><table><tr><td colspan="2">Test</td><td>Left</td><td>Right</td></tr><tr><td colspan="2">Refractive Power (D)</td><td>-0.01</td><td>-0.02</td></tr><tr><td colspan="2">Astigmatism (D)</td><td>0.02</td><td>0.05</td></tr><tr><td colspan="2">Resolving Power (&gt;20)</td><td>24</td><td>24</td></tr></table></div> <div><table><tr><td colspan="4">Prism</td></tr><tr><td colspan="2">Left</td><td colspan="2">Right</td></tr><tr><td>Vertical</td><td>Horizontal</td><td>Vertical</td><td>Horizontal</td></tr><tr><td>-0.0625</td><td>-0.1875</td><td>-0.125</td><td>-0.1875</td></tr></table></div> <div><table><tr><td colspan="2">Prism Imbalance</td></tr><tr><td>Vertical</td><td>Horizontal</td></tr><tr><td>-0.063</td><td>0.000</td></tr></table></div>	Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %	Actual:	25°	18	Test		Left	Right	Refractive Power (D)		-0.01	-0.02	Astigmatism (D)		0.02	0.05	Resolving Power (>20)		24	24	Prism				Left		Right		Vertical	Horizontal	Vertical	Horizontal	-0.0625	-0.1875	-0.125	-0.1875	Prism Imbalance		Vertical	Horizontal	-0.063	0.000	<div><table><tr><td colspan="2">Prism Imbalance*</td></tr><tr><td>Left</td><td>Right</td></tr><tr><td>0.20</td><td>0.23</td></tr></table></div> <div>* for calculation only</div>	Prism Imbalance*		Left	Right	0.20	0.23
	Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %																																																		
	Actual:	25°	18																																																		
	Test		Left	Right																																																	
	Refractive Power (D)		-0.01	-0.02																																																	
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	Prism																																																				
	Left		Right																																																		
	Vertical	Horizontal	Vertical	Horizontal																																																	
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-0.063	0.000																																																				
Prism Imbalance*																																																					
Left	Right																																																				
0.20	0.23																																																				
Table 1: Tolerance on Refractive Power, Astigmatism and Resolving Power																																																					
Protector	Refractive Power	Astigmatism	Resolving Power																																																		
Spectacle	± 0.06 D	≤ 0.06 D	Pattern 20																																																		
Goggle	± 0.06 D	≤ 0.06 D	Pattern 20																																																		
Faceshield Windows	No Requirement	No Requirement	Pattern 20																																																		
Welding Helmet Lenses	± 0.06 D	≤ 0.06 D	Pattern 20																																																		
Table 2: Tolerance on Prism and Prism Imbalance																																																					
Protector	Prism	Vertical Imbalance	Base In Imbalance	Base Out Imbalance																																																	
Spectacle	≤ 0.50 Δ	≤ 0.25 Δ	≤ 0.25 Δ	≤ 0.50 Δ																																																	
Goggle	≤ 0.25 Δ	≤ 0.125 Δ	≤ 0.125 Δ	≤ 0.50 Δ																																																	
Faceshields	≤ 0.37 Δ	≤ 0.37 Δ	≤ 0.125 Δ	≤ 0.75 Δ																																																	
Welding Lenses	≤ 0.50 Δ	≤ 0.25 Δ	≤ 0.25 Δ	≤ 0.75 Δ																																																	

PASS

# INTERTEK TEST DATA SHEETS

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Client: <u>Vicsa Safety</u>	Engineer: <u>Chad Morey</u>	
Job No.: <u>G101529224</u>	Tested By: <u>Andrew Rulison</u>	Date: <u>3/07/14</u>
Product: <u>Spectacle</u>	Reviewed By: <u>Chad Morey</u>	Date: <u>3/07/14</u>
Model No.: <u>Runner AF</u>	Standard: <u>ANSI/ISEA Z87.1-2010</u>	

Sample Control

Number: **CRT1402071156-001**

## TRANSCRIBED TEST DATA

Type:	Spectacle: X	Goggle:	Faceshield:	WH Lenses:	FF Respirator:	Removable:
Style:	Plano:	Rx:	Photochromatic:	Tinted:	Clear:	Non-Removable:

Section (Test)	Requirement	Results	Compliance																								
5	General Requirements (All Protectors)																										
5.2.1 (9.6)	<p>Drop Ball Impact Resistance:</p> <p>The protector lenses shall not fracture when impacted by a steel ball. A complete device shall fail if any of the following occurs; piece fully detached from inner surface, fracture, penetration of the rear surface, or lens not retained</p>	<table><tr><th colspan="3">Laboratory Conditions:</th></tr><tr><td>Req'd:</td><td>Temperature Range 18-28 °C (65-82 °F)</td><td>Humidity Range 35-65 %</td></tr><tr><td>Actual:</td><td>69°</td><td>41%</td></tr></table> <table><tr><td>Sample 9.6:</td><td>Impact eye Location</td><td>Fracture, penetration, etc</td></tr><tr><td>(1)</td><td>Left</td><td>NO</td></tr><tr><td>(2)</td><td>Left</td><td>NO</td></tr><tr><td>(3)</td><td>Right</td><td>NO</td></tr><tr><td>(4)</td><td>Right</td><td>NO</td></tr></table>	Laboratory Conditions:			Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %	Actual:	69°	41%	Sample 9.6:	Impact eye Location	Fracture, penetration, etc	(1)	Left	NO	(2)	Left	NO	(3)	Right	NO	(4)	Right	NO	PASS
Laboratory Conditions:																											
Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %																									
Actual:	69°	41%																									
Sample 9.6:	Impact eye Location	Fracture, penetration, etc																									
(1)	Left	NO																									
(2)	Left	NO																									
(3)	Right	NO																									
(4)	Right	NO																									
5.2.3 (9.7)	<p>Ignition:</p> <p>Protectors shall not ignite or continue to glow once the rod is removed. Each externally exposed material (exclusive of textiles or elastic bands) shall be tested.</p>	<table><tr><th colspan="3">Laboratory Conditions:</th></tr><tr><td>Req'd:</td><td>Temperature Range 18-28 °C (65-82 °F)</td><td>Humidity Range 35-65 %</td></tr><tr><td>Actual:</td><td>70°</td><td>55%</td></tr></table> <table><tr><td>Type</td><td>Ignition</td><td>Afterglow</td></tr><tr><td>Lens</td><td>No</td><td>No</td></tr><tr><td>Frame</td><td>No</td><td>No</td></tr><tr><td>Temple</td><td>No</td><td>No</td></tr></table>	Laboratory Conditions:			Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %	Actual:	70°	55%	Type	Ignition	Afterglow	Lens	No	No	Frame	No	No	Temple	No	No	PASS			
Laboratory Conditions:																											
Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %																									
Actual:	70°	55%																									
Type	Ignition	Afterglow																									
Lens	No	No																									
Frame	No	No																									
Temple	No	No																									
5.2.4 (9.8)	<p>Corrosion Resistance:</p> <p>Metal components used in protectors shall be corrosion resistant to the degree that the function of the protector shall not be impaired by the corrosion. Lenses and electrical components are excluded from these requirements.</p>	<table><tr><th colspan="3">Laboratory Conditions:</th></tr><tr><td>Req'd:</td><td>Temperature Range 18-28 °C (65-82 °F)</td><td>Humidity Range 35-65 %</td></tr><tr><td>Actual:</td><td>70°</td><td>65%</td></tr></table> <table><tr><td>Sample #:</td><td></td></tr><tr><td>Metal Components</td><td>Function Impaired</td></tr><tr><td>Screws</td><td>NO</td></tr></table>	Laboratory Conditions:			Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %	Actual:	70°	65%	Sample #:		Metal Components	Function Impaired	Screws	NO	PASS									
Laboratory Conditions:																											
Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %																									
Actual:	70°	65%																									
Sample #:																											
Metal Components	Function Impaired																										
Screws	NO																										

# INTERTEK TEST DATA SHEETS

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Client:	Vicsa Safety	Engineer:	Chad Morey		
Job No.:	G101529224	Tested By:	Andrew Rulison	Date:	3/07/14
Product:	Spectacle	Reviewed By:	Chad Morey	Date:	3/07/14
Model No.:	Runner AF	Standard:	ANSI/ISEA Z87.1-2010		

Sample Control

Number: **CRT1402071156-001**

## TRANSCRIBED TEST DATA

Type:	Spectacle: X	Goggle:	Faceshield:	WH Lenses:	FF Respirator:	Removable:
Style:	Plano:	Rx:	Photochromatic:	Tinted:	Clear:	Non-Removable:

### Section 6, Impact Protector Requirements (Z87+)

Section (Test)	Requirement	Results	Compliance																								
6	Impact Protector Requirements (Z87+)																										
6.1.3 (9.10)	<p>Lateral (side) Coverage:</p> <p>Impact rated protectors shall provide continuous lateral coverage (i.e. no openings greater than 1.5 mm (.06 in.) in diameter) from the edge of the lens to a point not less than 10 mm (0.394 in.) posterior to the corneal plane and not less than 10 mm (0.394 in.) above and not less than 10 mm (0.394 in.) below the horizontal plane centered on the eyes of the headform.</p>	<table><tr><td colspan="2">Sample #:</td><td></td></tr><tr><td colspan="2">Location</td><td>Coverage</td></tr><tr><td>0° Right (random) 10 mm above</td><td colspan="2">YES</td></tr><tr><td>90° Right 10mm above</td><td colspan="2">YES</td></tr><tr><td>90° Left 10mm above</td><td colspan="2">YES</td></tr><tr><td>0° Left (random) 10mm below</td><td colspan="2">YES</td></tr><tr><td>90° Right 10mm below</td><td colspan="2">YES</td></tr><tr><td>90° Left 10mm below</td><td colspan="2">YES</td></tr></table>	Sample #:			Location		Coverage	0° Right (random) 10 mm above	YES		90° Right 10mm above	YES		90° Left 10mm above	YES		0° Left (random) 10mm below	YES		90° Right 10mm below	YES		90° Left 10mm below	YES		PASS
Sample #:																											
Location		Coverage																									
0° Right (random) 10 mm above	YES																										
90° Right 10mm above	YES																										
90° Left 10mm above	YES																										
0° Left (random) 10mm below	YES																										
90° Right 10mm below	YES																										
90° Left 10mm below	YES																										
6.2.2 (9.11)	<p>High Mass Impact:</p> <p>The complete device shall be capable of resisting an impact from a pointed projectile.</p> <p>A complete device shall fail if any of the following occurs; piece fully detached from inner surface, fracture, penetration of the rear surface, lens not retained.</p>	<table><tr><td colspan="3">Laboratory Conditions:</td></tr><tr><td>Req'd:</td><td>Temperature Range 18-28 °C (65-82 °F)</td><td>Humidity Range 35-65 %</td></tr><tr><td>Actual:</td><td>69°</td><td>41%</td></tr></table> <table><tr><td>Sample 9.11:</td><td>Impact eye Location</td><td>Fracture, penetration, etc</td></tr><tr><td>(1)</td><td>Left</td><td>NO</td></tr><tr><td>(2)</td><td>Left</td><td>NO</td></tr><tr><td>(3)</td><td>Right</td><td>NO</td></tr><tr><td>(4)</td><td>Right</td><td>NO</td></tr></table>	Laboratory Conditions:			Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %	Actual:	69°	41%	Sample 9.11:	Impact eye Location	Fracture, penetration, etc	(1)	Left	NO	(2)	Left	NO	(3)	Right	NO	(4)	Right	NO	PASS
Laboratory Conditions:																											
Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %																									
Actual:	69°	41%																									
Sample 9.11:	Impact eye Location	Fracture, penetration, etc																									
(1)	Left	NO																									
(2)	Left	NO																									
(3)	Right	NO																									
(4)	Right	NO																									

# INTERTEK TEST DATA SHEETS

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Client: Vicsa Safety Engineer: Chad Morey  
Job No.: G101529224 Tested By: Andrew Rulison Date: 3/07/14  
Product: Spectacle Reviewed By: Chad Morey Date: 3/07/14  
Model No.: Runner AF Standard: ANSI/ISEA Z87.1-2010

Sample Control

Number: **CRT1402071156-001**

## TRANSCRIBED TEST DATA

Type:	Spectacle: X	Goggle:	Faceshield:	WH Lenses:	FF Respirator:	Removable:
Style:	Plano:	Rx:	Photochromatic:	Tinted:	Clear:	Non-Removable:

### 6.2.3 (9.12)

#### High Velocity Impact:

The complete device shall be capable of resisting impact from a 6.35 mm (0.25 in) diameter steel ball traveling at the velocity specified in Table 5 (see Appendix A). No contact with the eye of the headform is permitted as a result of the impact.

A complete device shall fail if any of the following occurs; piece fully detached from inner surface, fracture, penetration of the rear surface, lens not retained. For the high-velocity test, the unaided eye observes any piece adhering to the contact paste, or observes contact paste on the projectile or complete device.

**\*\*Complete APPENDIX A prior to testing \*\***

Steel Ball		
	Required	Actual
Diameter, mm	6.35	6.33
Weight, grams	1.06	1.05

#### Laboratory Conditions:

Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %
Actual:	69°	40%

Sample #:	9.12
-----------	------

#	Impact Location	Impact Velocity (ft/s)	Contact w/ eye
(1)	0° Rt. Eye	251.2	NO
(2)	30° Rt. Eye	251.4	NO
(3)	*90° Rt. Eye (above)	251.4	NO
(4)	0° Lt. Eye	250.6	NO
(5)	30° Lt. Eye	251.4	NO
(6)	*90° Lt. Eye (below)	249.3	NO

**\*10 mm above or below the plane of the eyes.**

PASS

# INTERTEK TEST DATA SHEETS

Page 8 of 8

Client:	Vicsa Safety	Engineer:	Chad Morey		
Job No.:	G101529224	Tested By:	Andrew Rulison	Date:	3/07/14
Product:	Spectacle	Reviewed By:	Chad Morey	Date:	3/07/14
Model No.:	Runner AF	Standard:	ANSI/ISEA Z87.1-2010		

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Number: **CRT1402071156-001**

## TRANSCRIBED TEST DATA

Type:	Spectacle: X	Goggle:	Faceshield:	WH Lenses:	FF Respirator:	Removable:
Style:	Plano:	Rx:	Photochromatic:	Tinted:	Clear:	Non-Removable:

<b>6.2.4 (9.13)</b>	<b>Penetration Test (lenses only):</b>  Lenses for all complete devises shall be capable of resisting penetration by a weighted needle.  A complete device shall fail if any of the following occurs; piece fully detached from inner surface, fracture, penetration of the rear surface, lens not retained.	<b>Laboratory Conditions:</b>			<b>PASS</b>
		Req'd:	Temperature Range 18-28 °C (65-82 °F)	Humidity Range 35-65 %	
		Actual:	70°	42%	
		Sample 9.13:	Impact eye Location	Penetration	
		(1)	Left	NO	
		(2)	Left	NO	
		(3)	Right	NO	
		(4)	Right	NO	