



Test Report T3691-02-1 Issue 1
ANSI Z87.1-2003
Ever Young Optical Hi-tec. Co., Ltd.
TP032 Safety Spectacle with Polycarbonate Polarized Lenses
31 August 2007



Certificate 1722.01

Approved by:

Prepared by:

A handwritten signature in blue ink that reads "Keith E. Whitten". The signature is written in a cursive style and is positioned above a horizontal line.

Keith E. Whitten
Laboratory Manager

A handwritten signature in blue ink that reads "Cathy Woloszyn". The signature is written in a cursive style and is positioned above a horizontal line.

Cathy Woloszyn
Laboratory Assistant

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ICS Laboratories, Inc. • 1072 Industrial Parkway North • Brunswick, Ohio 44212 USA
Phone: 330.220.0515 Fax: 330.220.0516

Issued to: Ever Young Optical Hi-tec. Co., Ltd.
No. 782, Wengjiao Road
Xinyang Industrial Area.
Haicang, Xiamen
China

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Objective:

Contract testing to ANSI Z87.1-2003 "Practice for Occupational and Educational Eye and Face Protection."
Section 7 Spectacles.

Samples:

TP032 Safety Spectacles with Polycarbonate Polarized Lenses

Lens Color	Frame Color	Quantity	ICS ID
Smoke Polarized	Black/Grey	30	1A-X

Date Submitted: 06 August 2007

Procedures:

Testing protocols in accord with good laboratory practice were employed for all tests.

All tests were conducted in a standard laboratory atmosphere unless otherwise specified.

Testing procedures as specified within Section 14 of ANSI Z87.1-2003 were followed.

Samples were randomly selected from the quantity provided and tested in the as-received condition unless otherwise stated.

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Assessment Summary:

Dates Tested: 20 through 21 August 2007

7. Spectacle Requirements	Compliant	Non-Compliant
7.1 Introduction		
7.2 Spectacle Frame Test		
7.3 Basic Impact Lens Requirements	Not applicable, assessed to 7.4.2	
7.4 Plano Spectacle Lens Requirements		
7.4.1 Basic Impact Testing Requirements		
7.4.2 High Impact Testing Requirements		
7.4.2.1 Spectacle Product Test		
7.4.2.1.1 High Mass Impact	X	
7.4.2.1.2 High Velocity Impact	X	
7.4.2.1.3 Penetration Test	X	
7.4.2.2 Thickness (Non-Plano Frames Only)	Not applicable	
7.4.3 Optical Requirements		
7.4.3.1 Optical Qualities	X	
7.4.3.2 Prismatic Power	X	
7.4.3.3 Refractive Power	X	
7.4.3.4 Resolving Power	X	
7.4.3.5 Haze	Not assessed	
7.4.3.6 Transmittance	X	
7.5 Non-Plano Spectacle Lens Requirements	Not applicable	
7.6 Flammability	X	
7.7 Corrosion Resistance	Not assessed	
7.8 Cleanability	X	
7.9 Replacement Spectacle Lenses	Not assessed	
7.10 Marking	Not assessed	

Samples as assessed meet the requirements of ANSI Z87.1-2003 for spectacles with side protection.

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Results:

7.4.2.1.1 High Mass Impact

Sample ID	Location	Pass	Fail
1A-1	Right Ocular	X	
1A-2	Left Ocular	X	
1A-3	Right Ocular	X	
1A-4	Left Ocular	X	

7.4.2.1.2 High Velocity Impact

Sample ID	Location	Velocity (ft/sec)	Pass	Fail
1A-5	Right Ocular 15° Nasal	151	X	
1A-6	Right Ocular 0°	150	X	
1A-7	Right Ocular 15° Temporal	151	X	
1A-8	Right Ocular 30° Temporal	151	X	
1A-9	Right Ocular 45° Temporal	150	X	
1A-10	Right Ocular 60° Temporal	151	X	
1A-11	Right Ocular 75° Temporal	150	X	
1A-12	Right Ocular 90° Temporal	147	X	
1A-13	Right Ocular 90° Temporal +10 mm	151	X	
1A-14	Right Ocular 90° Temporal -10 mm	150	X	
1A-15	Left Ocular 15° Nasal	150	X	
1A-16	Left Ocular 0°	151	X	
1A-17	Left Ocular 15° Temporal	150	X	
1A-18	Left Ocular 30° Temporal	150	X	
1A-19	Left Ocular 45° Temporal	150	X	
1A-20	Left Ocular 60° Temporal	151	X	
1A-21	Left Ocular 75° Temporal	150	X	
1A-22	Left Ocular 90° Temporal	150	X	
1A-23	Left Ocular 90° Temporal +10 mm	149	X	
1A-24	Left Ocular 90° Temporal -10 mm	150	X	

Side Protection Coverage

Sample ID	Above Center	Below Center	Pass	Fail
1A-1	19	11	X	
Specification:	≥ 10mm			

Note: "The function and coverage of side protection are defined by the high velocity impact test (Section 14.2)". Due to asymmetries of the Alderson 50th percentile headform the left eye is used for this assessment as it provides better correlation to published specifications and the standard fitting practices.

7.4.2.1.3 Penetration

Sample ID	Location	Pass	Fail
1A-1	Left Ocular	X	
1A-2	Right Ocular	X	
1A-3	Left Ocular	X	
1A-4	Right Ocular	X	

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7.4.3.1 Optical Qualities; Result: Pass

Samples are free of striae, bubbles, waves and other visible defects and flaws.

7.4.3.2 Prismatic Power

Sample ID	Prismatic Power (Δ)		Vertical Imbalance (Δ)	Horizontal Imbalance (Δ)	Pass	Fail
	Left Ocular	Right Ocular				
1A-25	0.23	0.34	0.07	0.24 Base Out	X	
1A-26	0.18	0.33	0.04	0.17 Base Out	X	
1A-27	0.26	0.37	0.05	0.24 Base Out	X	
Specification:	≤ 0.50		≤ 0.25	≤ 0.50 Base Out ≤ 0.25 Base In		

7.4.3.3 Refractive Power

Sample ID	Left Ocular (D)			Right Ocular (D)			Pass	Fail
	Refractive Power		Astigmatism	Refractive Power		Astigmatism		
1A-25	0.00	-0.04	0.04	0.00	-0.05	0.05	X	
1A-26	0.01	-0.03	0.04	0.01	-0.04	0.05	X	
1A-27	0.01	-0.02	0.03	0.00	-0.06	0.06	X	
Specification:	$\leq \pm 0.06$		≤ 0.06	$\leq \pm 0.06$		≤ 0.06		

Note: Tested in a simulated as worn position.

7.4.3.4 Resolving Power

Sample ID	Pattern Resolved		Pass	Fail
	Left Ocular	Right Ocular		
1A-25	>20	>20	X	
1A-26	>20	>20	X	
1A-27	>20	>20	X	
Specification:	\geq Pattern 20			

Note: Tested in a simulated as worn position.

7.4.3.6 Transmittance

Sample ID	Left (%)	Right (%)	Left/Right	Pass	Fail
1A-25	14.3	13.9	1.03	X	
1A-26	14.0	13.9	1.00	X	
1A-27	14.1	13.8	1.02	X	
Specification:	Special Purpose: Tinted: $100 \geq T (L) \geq 8$		$1.10 \geq L/R \geq 0.90$		

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7.6 Flammability

Sample ID	Component	Measured Value (mm/min)	Pass	Fail
1A-1	Lens	0	X	
	Front	30	X	
	Temple	20	X	
1A-2	Lens	0	X	
	Front	30	X	
	Temple	20	X	
1A-3	Lens	0	X	
	Front	30	X	
	Temple	30	X	
Specification:		≤ 76		

7.8 Cleanability; Result: Pass

The function and markings are not impaired by the cleaning procedure.

Sample Photograph:



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