



Test Report: IEI-04545, Issue: 1

ANSI Z87.1-2020

Innovative Eyewear, Inc.

Clear Poly Lens w/ Magnets

August 19, 2026



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Authorized By:

A handwritten signature in black ink, appearing to read 'Jacob Gary'.

Jacob Gary
Director of Operations

Reviewed By:

A handwritten signature in black ink, appearing to read 'Jason Fawell'.

Jason Fawell
Technical Engineer

Issued to: Innovative Eyewear, Inc.
11900 Biscayne Bl
Miami, FL 33181



Date: August 19, 2026
Report: IEI-04545
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Requested by: Harrison Gross

Report Summary

Product Description: Clear Polycarbonate Lens:
Date Received: July 27, 2026
Date(s) Tested: August 18, 2026 to August 19, 2026
Standard: ANSI Z87.1-2020
Laboratory Conditions: 22°C, 55% RH

Final Conclusion:

The Ophthalmic (PPE) Sample: Clear Polycarbonate Lens () **does** comply with ANSI Z87.1-2020 for the test(s) included in this report.

Test Name	Result
ANSI Z87.1 High Impact Prescription Lens Material Qualification	
7.1.4.5 Prescription Lens Material Qualification	Pass

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Test Results - IEI-04545-01/Clear Polycarbonate Lens

ANSI Z87.1 High Impact Prescription Lens Material Qualification

7.1.4.5 Prescription Lens Material Qualification

Test	Specification	Pass
Lens 1		Pass
Lens 1: Thickness: In no case less than 2.0 mm	Min: 2.00	2.21 (mm)
Lens 1: 55mm +0.04/-0.25mm	54.75/55.04	54.86 (mm)
Lens 1: Impact Resistance	Min: 150	151 (fps)
Lens 2		Pass
Lens 2: Thickness: In no case less than 2.0 mm	Min: 2.00	2.24 (mm)
Lens 2: 55mm +0.04/-0.25mm	54.75/55.04	54.84 (mm)
Lens 2: Impact Resistance	Min: 150	153 (fps)
Lens 3		Pass
Lens 3: Thickness: In no case less than 2.0 mm	Min: 2.00	2.24 (mm)
Lens 3: 55mm +0.04/-0.25mm	54.75/55.04	54.87 (mm)
Lens 3: Impact Resistance	Min: 150	153 (fps)

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Requested by: Harrison Gross

Report Summary

Product Description: Clear poly with Blue light blocking:
Date Received: July 27, 2026
Date(s) Tested: August 18, 2026 to August 19, 2026
Standard: ANSI Z87.1-2020
Laboratory Conditions: 22°C, 55% RH

Final Conclusion:

The Ophthalmic (PPE) Sample: Clear poly with Blue light blocking () **does** comply with ANSI Z87.1-2020 for the test(s) included in this report.

Test Name	Result
ANSI Z87.1 High Impact Prescription Lens Material Qualification	
7.1.4.5 Prescription Lens Material Qualification	Pass

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Test Results - IEI-04545-02/Clear poly with Blue light blocking

ANSI Z87.1 High Impact Prescription Lens Material Qualification

7.1.4.5 Prescription Lens Material Qualification

Test	Specification	Pass
Lens 1		Pass
Lens 1: Thickness: In no case less than 2.0 mm	Min: 2.00	2.26 (mm)
Lens 1: 55mm +0.04/-0.25mm	54.75/55.04	54.82 (mm)
Lens 1: Impact Resistance	Min: 150	154 (fps)
Lens 2		Pass
Lens 2: Thickness: In no case less than 2.0 mm	Min: 2.00	2.29 (mm)
Lens 2: 55mm +0.04/-0.25mm	54.75/55.04	54.83 (mm)
Lens 2: Impact Resistance	Min: 150	151 (fps)
Lens 3		Pass
Lens 3: Thickness: In no case less than 2.0 mm	Min: 2.00	2.29 (mm)
Lens 3: 55mm +0.04/-0.25mm	54.75/55.04	54.82 (mm)
Lens 3: Impact Resistance	Min: 150	151 (fps)

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Requested by: Harrison Gross

Report Summary

Product Description: Polarized Poly Sunglass Lens:
Date Received: July 27, 2026
Date(s) Tested: August 18, 2026 to August 19, 2026
Standard: ANSI Z87.1-2020
Laboratory Conditions: 22°C, 55% RH

Final Conclusion:

The Ophthalmic (PPE) Sample: Polarized Poly Sunglass Lens () **does** comply with ANSI Z87.1-2020 for the test(s) included in this report.

Test Name	Result
ANSI Z87.1 High Impact Prescription Lens Material Qualification	
7.1.4.5 Prescription Lens Material Qualification	Pass

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Test Results - IEI-04545-03/Polarized Poly Sunglass Lens

ANSI Z87.1 High Impact Prescription Lens Material Qualification

7.1.4.5 Prescription Lens Material Qualification

Test	Specification	Pass
Lens 1		Pass
Lens 1: Thickness: In no case less than 2.0 mm	Min: 2.00	2.20 (mm)
Lens 1: 55mm +0.04/-0.25mm	54.75/55.04	54.82 (mm)
Lens 1: Impact Resistance	Min: 150	151 (fps)
Lens 2		Pass
Lens 2: Thickness: In no case less than 2.0 mm	Min: 2.00	2.22 (mm)
Lens 2: 55mm +0.04/-0.25mm	54.75/55.04	54.85 (mm)
Lens 2: Impact Resistance	Min: 150	153 (fps)
Lens 3		Pass
Lens 3: Thickness: In no case less than 2.0 mm	Min: 2.00	2.23 (mm)
Lens 3: 55mm +0.04/-0.25mm	54.75/55.04	54.83 (mm)
Lens 3: Impact Resistance	Min: 150	153 (fps)

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Requested by: Harrison Gross

Report Summary

Product Description: Photochromic Poly Lens:
Date Received: July 27, 2026
Date(s) Tested: August 18, 2026 to August 19, 2026
Standard: ANSI Z87.1-2020
Laboratory Conditions: 22°C, 55% RH

Final Conclusion:

The Ophthalmic (PPE) Sample: Photochromic Poly Lens () **does** comply with ANSI Z87.1-2020 for the test(s) included in this report.

Test Name	Result
ANSI Z87.1 High Impact Prescription Lens Material Qualification	
7.1.4.5 Prescription Lens Material Qualification	Pass

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Test Results - IEI-04545-04/Photochromic Poly Lens

ANSI Z87.1 High Impact Prescription Lens Material Qualification

7.1.4.5 Prescription Lens Material Qualification

Test	Specification	Pass
Lens 1		Pass
Lens 1: Thickness: In no case less than 2.0 mm	Min: 2.00	2.22 (mm)
Lens 1: 55mm +0.04/-0.25mm	54.75/55.04	54.92 (mm)
Lens 1: Impact Resistance	Min: 150	152 (fps)
Lens 2		Pass
Lens 2: Thickness: In no case less than 2.0 mm	Min: 2.00	2.25 (mm)
Lens 2: 55mm +0.04/-0.25mm	54.75/55.04	54.91 (mm)
Lens 2: Impact Resistance	Min: 150	154 (fps)
Lens 3		Pass
Lens 3: Thickness: In no case less than 2.0 mm	Min: 2.00	2.27 (mm)
Lens 3: 55mm +0.04/-0.25mm	54.75/55.04	54.91 (mm)
Lens 3: Impact Resistance	Min: 150	156 (fps)

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Report Summary

Product Description: Clear Poly Lens w/ Magnets:
Date Received: July 27, 2026
Date(s) Tested: August 18, 2026 to August 19, 2026
Standard: ANSI Z87.1-2020
Laboratory Conditions: 22°C, 55% RH

Final Conclusion:

The Ophthalmic (PPE) Sample: Clear Poly Lens w/ Magnets () **does** comply with ANSI Z87.1-2020 for the test(s) included in this report.

Test Name	Result
ANSI Z87.1 High Impact Prescription Lens Material Qualification	
7.1.4.5 Prescription Lens Material Qualification	Pass

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Test Results - IEI-04545-05/Clear Poly Lens w/ Magnets

ANSI Z87.1 High Impact Prescription Lens Material Qualification

7.1.4.5 Prescription Lens Material Qualification

Test	Specification	Pass
Lens 1		Pass
Lens 1: Thickness: In no case less than 2.0 mm	Min: 2.00	3.62 (mm)
Lens 1: 55mm +0.04/-0.25mm	54.75/55.04	54.85 (mm)
Lens 1: Impact Resistance	Min: 150	155 (fps)
Lens 2		Pass
Lens 2: Thickness: In no case less than 2.0 mm	Min: 2.00	3.64 (mm)
Lens 2: 55mm +0.04/-0.25mm	54.75/55.04	54.86 (mm)
Lens 2: Impact Resistance	Min: 150	154 (fps)
Lens 3		Pass
Lens 3: Thickness: In no case less than 2.0 mm	Min: 2.00	3.65 (mm)
Lens 3: 55mm +0.04/-0.25mm	54.75/55.04	54.85 (mm)
Lens 3: Impact Resistance	Min: 150	154 (fps)

APPENDIX 1

ANSI Z87.1 - 2020 Measurement Uncertainty Values

Section	Requirement	Uncertainty
5.1.2	Luminous Transmittance	0.19%
5.1.3	Haze	0.08%
5.1.4	Refractive Power	0.018D
	Astigmatism	0.018D
	Prism	0.048Δ
5.4.5	Minimum Lens Thickness	0.012 mm
5.5.1	Replaceable Lenses – Goggles	0.17 mm
5.5.2	Replaceable Lenses – Welding Helmets and Handshields	0.17 mm
6.1	Relaxed Optics Level	See 5.1.4
6.2	Anti-Fog Properties	1.79%
7.2.1	Optical Radiation - Clear Lenses	See 5.1.2
7.2.2.1.1	Transmission Requirements	
	Table 7 (Welding Filters)	
	W1.3 – W3.0	See 5.1.2
	W4	0.0018287%
	W5	0.0003283%
	W6	0.0003605%
	W7	0.0000961%
	W8	0.0001944%
	W9	0.0000459%
	W10	0.0000707%
	W11	0.0000163%
	W12	0.0000055%
	W13	0.0000029%
	W14	0.0000017%
	EFUV	0.0000551%
	NUV	0.0000576%
	IR	0.010395%
	Table 8 (UV Filters)	
	EFUV	0.0000551%
	NUV	0.0000576%
	Table 9 (IR Filters)	0.010395%
	Table 10 (VIS Filters)	See 7.2.2.1.1 W1.3 – W10
	Table 11 Tinted	See 5.1.2
	Extra Dark	See 5.1.2
7.2.2.1.2	Visible Light Filters	
	Visible Light (L1.3 - L3)	See 5.1.2
	UVA	See Table 7 NUV
	UVB	See Table 7 EFUV
7.2.2.2	Transmittance of Non-lens Components	See 7.2.2.1.1 Table 7, 8 & 9
7.2.3.1	Automatic Darkening Welding Filter Lenses - Luminous Transmittance	See 7.2.2.1.1 Table 7
7.2.3.2	Automatic Darkening Welding Filter Lenses - UV/IR Transmittance	See 7.2.2.1.1 Table 7
7.2.3.3	Switching Index	0.0192 mSec
7.2.3.5	Angular dependence of luminous transmittance	See 7.2.2.1.1 Table 7