



# Performance Details

Revision 10

Report	Standard and Product Requirements	Results	Pass / Fail
1	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.	No defects	Pass
1	5.1.2 (9.2) - Luminous Transmission (Clear Lenses): Clear lenses shall have a luminous transmission of not less than 85%.	>85%	Pass
1	5.1.3 (9.3) - Haze (Clear Only): Clear plano lenses shall not exhibit more than 3% haze.	<3%	Pass
1	5.1.4 (9.4, 9.5) - Refractive Power, Astigmatism, Resolving Power, Prism and Prism Imbalance for Plano Protectors: For Faceshields, Refractive Power $\pm 0.06D$ Astigmatism $\leq 0.06D$ Resolving power = Pattern 20 Prism $\leq 0.37\Delta$ Vertical Imbalance $\leq 0.37\Delta$ Base-In Imbalance $\leq 0.125\Delta$ Base-Out Imbalance $\leq 0.75\Delta$	Meets applicable requirements	Pass
1	5.2 Physical Requirements: Protectors shall be free from projections, sharp edges or other defects which are likely to cause discomfort or injury during use.	No projections, sharp edges or other defects	Pass
1	5.2.2 (9.7) - Ignition: Protectors shall not ignite or continue to glow once the heated rod is removed.	No ignition or afterglow	Pass
1	7.1.3 (9.10) - Lateral (Side) Coverage: Impact-rated protectors shall provide continuous lateral coverage (i.e. no openings greater than 1.5 mm in diameter) from the edge of the lens to a point not less than 10 mm posterior to the corneal plane and not less than 10 mm above or below the horizontal plane centered on the eyes of the headform.	Continuous coverage	Pass
1	7.1.4.2 (9.11) - High Mass Impact: The complete device shall be capable of resisting an impact from a pointed projectile. 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.	No fracture, penetration, etc.	Pass

1	7.1.4.3 (9.12) - High Velocity Impact: The complete device shall be capable of resisting impact from a 6.35 mm diameter steel ball travelling at 91.44 m/s. 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, the unaided eye observes any piece adhering to the contact paste, or observes contact paste on the projectile or device.	No fracture, penetration, contact with the eye, etc.	Pass
1	7.1.4.4 (9.13) - Penetration Impact: Lenses for all complete devices 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 rear surface, lens not retained.	No penetration	Pass
1	7.3.2 (9.17) Droplets and Splash Hazard - Faceshields When tested in accordance with Section 9.17.2, the laser beam shall not make direct contact with any point on the eye-region rectangle without first being intercepted by the faceshield.	All test angles intercepted	Pass
2	5.1.4 (9.4, 9.5) - Refractive Power, Astigmatism, Resolving Power, Prism and Prism Imbalance for Plano Protectors: For Faceshields, Refractive Power $\pm 0.06D$ Astigmatism $\leq 0.06D$ Resolving power = Pattern 20 Prism $\leq 0.37\Delta$ Vertical Imbalance $\leq 0.37\Delta$ Base-In Imbalance $\leq 0.125\Delta$ Base-Out Imbalance $\leq 0.75\Delta$	Meets applicable requirements	Pass
2, 3	7.1.3 (9.10) - Lateral (Side) Coverage: Impact-rated protectors shall provide continuous lateral coverage (i.e. no openings greater than 1.5 mm in diameter) from the edge of the lens to a point not less than 10 mm posterior to the corneal plane and not less than 10 mm above or below the horizontal plane centered on the eyes of the headform.	Continuous coverage	Pass
2, 3	7.1.4.2 (9.11) - High Mass Impact: The complete device shall be capable of resisting an impact from a pointed projectile. 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.	No fracture, penetration, etc.	Pass

2, 3	<p>7.1.4.3 (9.12) - High Velocity Impact:  The complete device shall be capable of resisting impact from a 6.35 mm diameter steel ball travelling at 91.44 m/s. 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, the unaided eye observes any piece adhering to the contact paste, or observes contact paste on the projectile or device.</p>	No fracture, penetration, contact with the eye, etc.	Pass
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