



FIREFIGHTER PPE

Product Data Sheets



ARC FLASH **ARMOR**
lens technology

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Product Details	
Model Number	510-E
Material	Lens: Polycarbonate Frame: Silicone Strap: Elastic; Flame Retardant Plastic Alloy Components
Color	Lens: Clear Frame/Strap: Black
Lens Coatings	Antifog / Anti-Abrasion
Dimensions	3 x 8 x 0.095"
Product Weight	0.35 lbs.
Specification	NFPA 1971, 1977, 1951 ANSI Z87.1+
Description	Protective goggle designed to specifically address the needs of the structural firefighter
Competitive Advantage	• APEC® material passes the 500° 5-minute heat exposure test of the NFPA standard • Hard-coated outer lens with a superior antifog inner surface • Optically correct lens for optimal visibility • Strap tension adjustable while wearing gloves • Fits over most prescription, safety and sun protective spectacles • Baffled top and bottom vents • Elastic strap designed for comfort when worn on the head and may be stowed on the helmet
Applications	Structural firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
Country of Origin	USA
CA Prop. 65 Warning	Cancer & Reproductive - For more information, go to www.P65Warnings.ca.gov





Product Details	
Model Number	510-EN
Material	Lens: Polycarbonate Frame: Silicone Strap: Elastic; Flame Retardant Plastic Alloy Components
Color	Lens: Clear Frame/Strap: Black
Lens Coatings	Antifog / Anti-Abrasion
Dimensions	3 x 8 x 0.095"
Product Weight	0.35 lbs.
Specification	NFPA 1971, 1977, 1951 ANSI Z87.1+
Description	Protective goggle with nose shield designed to specifically address the needs of the structural firefighter
Competitive Advantage	• APEC® material passes the 500° 5-minute heat exposure test of the NFPA standard • Hard-coated outer lens with a superior antifog inner surface • Optically correct lens for optimal visibility • Strap tension adjustable while wearing gloves • Fits over most prescription, safety and sun protective spectacles • Baffled top and bottom vents • Elastic strap designed for comfort when worn on the head and may be stowed on the helmet
Applications	Structural firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
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Product Details	
Model Number	510-EB
Material	Lens: Polycarbonate Frame: Silicone Strap: Elastic; Flame Retardant Plastic Alloy Components
Color	Lens: Clear Frame/Strap: Black
Lens Coatings	Antifog / Anti-Abrasion
Dimensions	3 x 8 x 0.095"
Product Weight	0.35 lbs.
Specification	NFPA 1971, 1977, 1951 ANSI Z87.1+
Description	Protective goggle designed to specifically address the needs of the structural firefighter
Competitive Advantage	• APEC® material passes the 500° 5-minute heat exposure test of the NFPA standard • Hard-coated outer lens with a superior antifog inner surface • Optically correct lens for optimal visibility • Strap tension adjustable while wearing gloves • The Quick Release buckle system facilitates quick attachment or removal of the goggle. • Fits over most prescription, safety and sun protective spectacles • Baffled top and bottom vents • Elastic strap designed for comfort when worn on the head and may be stowed on the helmet
Applications	Structural firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
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Product Details	
Model Number	510-SL
Material	Lens: Polycarbonate Frame: Silicone Strap: Silicone; Flame Retardant Plastic Alloy Components
Color	Lens: Clear Frame/Strap: Black
Lens Coatings	Antifog / Anti-Abrasion
Dimensions	3 x 8 x 0.095"
Product Weight	0.35 lbs.
Specification	NFPA 1971, 1977, 1951 ANSI Z87.1+
Description	Protective goggle designed to specifically address the needs of the structural firefighter.
Competitive Advantage	• APEC® material passes the 500° 5-minute heat exposure test of the NFPA standard • Hard-coated outer lens with a superior antifog inner surface • Optically correct lens for optimal visibility • Strap tension adjustable while wearing gloves • Fits over most prescription, safety and sun protective spectacles • Baffled top and bottom vents • Silicone strap designed for comfort when worn on the head and may be stowed on the helmet
Applications	Structural firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
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Product Details	
Model Number	510-SLN
Material	Lens: Polycarbonate Frame: Silicone Strap: Silicone; Flame Retardant Plastic Alloy Components
Color	Lens: Clear Frame/Strap: Black
Lens Coatings	Antifog / Anti-Abrasion
Dimensions	3 x 8 x 0.095"
Product Weight	0.35 lbs.
Specification	NFPA 1971, 1977, 1951 ANSI Z87.1+
Description	Protective goggle with nose shield designed to specifically address the needs of the structural firefighter. Silicone strap designed for comfort when worn on the head and may be stowed on the helmet.
Competitive Advantage	• APEC® material passes the 500° 5-minute heat exposure test of the NFPA standard • Hard-coated outer lens with a superior antifog inner surface • Optically correct lens for optimal visibility • Strap tension adjustable while wearing gloves • Fits over most prescription, safety and sun protective spectacles • Baffled top and bottom vents • Silicone strap designed for comfort when worn on the head and may be stowed on the helmet
Applications	Structural firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
Country of Origin	USA
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Product Details	
Model Number	510-WE
Material	Lens: Polycarbonate Frame: Silicone Strap: Elastic; Flame Retardant Plastic Alloy Components
Color	Lens: Clear Frame/Strap: Black
Lens Coatings	Antifog / Anti-Abrasion
Dimensions	3 x 8 x 0.095"
Product Weight	0.35 lbs.
Specification	NFPA 1971, 1977, 1951 ANSI Z87.1+
Description	Protective goggle designed to specifically address the needs of the wildland firefighter.
Competitive Advantage	• Passes the 350° 5-minute heat exposure test of the NFPA standard • Hard-coated outer lens with a superior antifog inner surface • Optically correct lens for optimal visibility • Strap tension adjustable while wearing gloves • Fits over most prescription, safety and sun protective spectacles • Baffled top and bottom vents • Elastic strap designed for comfort when worn on the head and may be stowed on the helmet
Applications	Wildland firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
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Product Details	
Model Number	510-WEN
Material	Lens: Polycarbonate Frame: Silicone Strap: Elastic; Flame Retardant Plastic Alloy Components
Color	Lens: Clear Frame/Strap: Black
Lens Coatings	Antifog / Anti-Abrasion
Dimensions	3 x 8 x 0.095"
Product Weight	0.35 lbs.
Specification	NFPA 1971, 1977, 1951 ANSI Z87.1+
Description	Protective goggle with nose shield designed to specifically address the needs of the wildland firefighter.
Competitive Advantage	• Passes the 350° 5-minute heat exposure test of the NFPA standard • Hard-coated outer lens with a superior antifog inner surface • Optically correct lens for optimal visibility • Strap tension adjustable while wearing gloves • Fits over most prescription, safety and sun protective spectacles • Baffled top and bottom vents • Elastic strap designed for comfort when worn on the head and may be stowed on the helmet
Applications	Wildland firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
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Product Details	
Model Number	510-WEB
Material	Lens: Polycarbonate Frame: Silicone Strap: Elastic; Flame Retardant Plastic Alloy Components
Color	Lens: Clear Frame/Strap: Black
Lens Coatings	Antifog / Anti-Abrasion
Dimensions	3 x 8 x 0.095"
Product Weight	0.35 lbs.
Specification	NFPA 1971, 1977, 1951 ANSI Z87.1+
Description	Protective goggle designed to specifically address the needs of the wildland firefighter.
Competitive Advantage	• Passes the 350° 5-minute heat exposure test of the NFPA standard • Hard-coated outer lens with a superior antifog inner surface • Optically correct lens for optimal visibility • Strap tension adjustable while wearing gloves • The Quick Release buckle system facilitates quick attachment or removal of the goggle. • Fits over most prescription, safety and sun protective spectacles • Baffled top and bottom vents • Elastic strap designed for comfort when worn on the head and may be stowed on the helmet
Applications	Wildland firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
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Product Details	
Model Number	510-WSL
Material	Lens: Polycarbonate Frame: Silicone Strap: Silicone; Flame Retardant Plastic Alloy Components
Color	Lens: Clear Frame/Strap: Black
Lens Coatings	Antifog / Anti-Abrasion
Dimensions	3 x 8 x 0.095"
Product Weight	0.35 lbs.
Specification	NFPA 1971, 1977, 1951 ANSI Z87.1+
Description	Protective goggle designed to specifically address the needs of the wildland firefighter.
Competitive Advantage	• Passes the 350° 5-minute heat exposure test of the NFPA standard • Hard-coated outer lens with a superior antifog inner surface • Optically correct lens for optimal visibility • Strap tension adjustable while wearing gloves • Fits over most prescription, safety and sun protective spectacles • Baffled top and bottom vents • Silicone strap designed for comfort when worn on the head and may be stowed on the helmet
Applications	Wildland firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
Country of Origin	USA
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Product Details	
Model Number	510-WSLN
Material	Lens: Polycarbonate Frame: Silicone Strap: Silicone; Flame Retardant Plastic Alloy Components
Color	Lens: Clear Frame/Strap: Black
Lens Coatings	Antifog / Anti-Abrasion
Dimensions	3 x 8 x 0.095"
Product Weight	0.35 lbs.
Specification	NFPA 1971, 1977, 1951 ANSI Z87.1+
Description	Protective goggle with nose shield designed to specifically address the needs of the wildland firefighter.
Competitive Advantage	• Passes the 350° 5-minute heat exposure test of the NFPA standard • Hard-coated outer lens with a superior antifog inner surface • Optically correct lens for optimal visibility • Strap tension adjustable while wearing gloves • Fits over most prescription, safety and sun protective spectacles • Baffled top and bottom vents • Silicone strap designed for comfort when worn on the head and may be stowed on the helmet
Applications	Wildland firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
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Product Details	
Model Number	510-AL
Material	Polycarbonate
Color	Clear
Lens Coatings	Antifog / Anti-Abrasion
Dimensions	3 x 8 x 0.095"
Product Weight	0.03 lbs.
Specification	NFPA 1971, 1977, 1951 ANSI Z87.1+
Description	Anti-abrasion/antifog coated replacement lens for the A-TAC® structural firefighter goggle.
Competitive Advantage	• APEC® material passes the 500° 5-minute heat exposure test of the NFPA standard • Hard-coated outer lens with a superior antifog inner surface • Optically correct lens for optimal visibility
Applications	Structural firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
Country of Origin	USA
CA Prop. 65 Warning	Cancer & Reproductive - For more information, go to www.P65Warnings.ca.gov





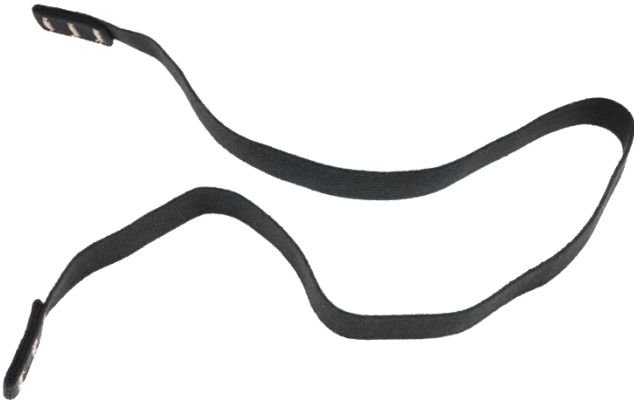
Product Details	
Model Number	510-WL
Material	Polycarbonate
Color	Clear
Lens Coatings	Antifog / Anti-Abrasion
Dimensions	3 x 8 x 0.095"
Product Weight	0.03 lbs.
Specification	NFPA 1971, 1977, 1951 ANSI Z87.1+
Description	Anti-abrasion/antifog coated replacement lens for then A-TAC® wildland firefighter goggle.
Competitive Advantage	• APEC® material passes the 350° 5-minute heat exposure test of the NFPA standard • Hard-coated outer lens with a superior antifog inner surface • Optically correct lens for optimal visibility
Applications	Wildland firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
Country of Origin	USA
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Product Details	
Model Number	510-ALG
Material	Polycarbonate, Gold
Color	Gold
Lens Coatings	Exterior: Gold Interior: Permanent Antifog
Dimensions	3 x 8 x 0.095"
Product Weight	0.03 lbs.
Specification	NFPA 1971, 1977, 1951 ANSI Z87.1+
Description	Anti-abrasion/antifog gold-coated replacement lens for the A-TAC® structural firefighter goggle.
Competitive Advantage	• Passes the 500° 5-minute heat exposure test of the NFPA standard • Gold hard-coated outer lens provides superior protection against extreme high heat scenarios. • Optically correct lens for optimal visibility
Applications	Structural firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
Country of Origin	USA
CA Prop. 65 Warning	Cancer & Reproductive - For more information, go to www.P65Warnings.ca.gov 





Product Details	
Model Number	510-ES
Material	PBI, Kevlar Elastic
Color	Black
Product Weight	0.03 lbs.
Specification	NFPA 1971, 1977, 1951 ANSI Z87.1+
Description	Elastic replacement strap for all models of the A-TAC® firefighting goggle.
Competitive Advantage	The special elastic is designed to survive the rigors of the firefighting environment.
Applications	Firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
Country of Origin	USA





Product Details	
Model Number	510-ESA
Material	PBI, Kevlar Elastic
Color	Black
Product Weight	0.03 lbs.
Specification	NFPA 1971, 1977, 1951 ANSI Z87.1+
Description	Elastic replacement strap for all models of the A-TAC® firefighting goggle. Includes the Quick Strap adjustment hardware.
Competitive Advantage	• The special elastic is designed to survive the rigors of the firefighting environment. • Quick Strap adjustment allows for easy adjustment while wearing gloves.
Applications	Firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
Country of Origin	USA





Product Details	
Model Number	510-ESAB
Material	PBI, Kevlar Elastic
Color	Black
Product Weight	0.03 lbs.
Specification	NFPA 1971, 1977, 1951 ANSI Z87.1+
Description	Elastic replacement strap for all models of the A-TAC® firefighting goggle. Includes the Quick Release buckle system and Quick Strap adjustment hardware.
Competitive Advantage	• The special elastic is designed to survive the rigors of the firefighting environment. • Quick Release buckle system allows for easy goggle removal. • Quick Strap adjustment allows for easy adjustment while wearing gloves.
Applications	Firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
Country of Origin	USA





Product Details	
Model Number	510-SSA
Material	Silicone, Plastic Alloys
Color	Black
Product Weight	0.03 lbs.
Specification	NFPA 1971, 1977, 1951 ANSI Z87.1+
Description	Silicone replacement strap for all models of the A-TAC® firefighting goggles. Includes Quick Strap adjustment hardware.
Competitive Advantage	• The special Silicone is designed to survive the rigors of the firefighting environment. • Silicone material is anti-absorbent and very easy to clean. • Quick Strap adjustment allows for easy adjustment while wearing gloves.
Applications	Firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
Country of Origin	USA





Product Details	
Model Number	A-GLCC
Material	Mylar/Adhesive
Color	Clear
Product Weight	0.01 lbs.
Description	Clear disposable self-adhesive cover lens for the A-TAC® firefighter goggle. Package of 5.
Competitive Advantage	• Self-adhesive design maintains a tight seal and eliminates dust and dirt from entering behind the cover lens and is easy to install. • The cover lens is designed to be pulled off if the goggle is splashed with a vision blocking material or gets scratched.
Applications	Firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
Country of Origin	USA





Product Details	
Model Number	A-GC
Material	Plastic Alloy
Color	Black
Product Weight	0.01 lbs.
Specification	NFPA 1971, 1977, 1951
Description	Clip system designed to fit the firefighting helmet that the A-TAC® goggle will be attached to. Sold as a pair.
Competitive Advantage	• These simple mounting clips control the strap and allow the goggle to be placed on the front or rear of the helmet for storage. • The goggle can be easily pulled into the deployed position.
Applications	Firefighting and other emergency operations where there is a threat of fire. Also designed for physical hazards such as non-fire-related salvage, rescue operations, emergency medical operations, and victim extraction.
Country of Origin	USA





Product Details	
Model Number	A-PC
Material	Plastic Alloy
Color	Black
Product Weight	0.01 lbs.
Specification	NFPA 1971, 1977, 1951
Description	Clip system designed to fit the Phenix® structural firefighting helmet that the A-TAC® goggle will be attached to. Sold as a pair.
Competitive Advantage	• These simple mounting clips control the strap and allow the goggle to be placed on the front or rear of the helmet for storage. • The goggle can be easily pulled into the deployed position.
Applications	Any operation in which a full-brim Phenix® firefighting helmet would be worn with goggles attached.
Country of Origin	USA





Plastics Used in Paulson Products

ABS	<i>Acrylonitrile Butadiene Styrene</i> is a common general-purpose plastic.
Acetate	<i>Cellulose Acetate</i> is a plastic that is available in polished optical sheet. Products made from this material should not be used for extremely low or high temperature applications.
HDPE	<i>High Density Polyethylene</i> is a material used in opaque general-purpose components.
Nylon	Characterized by toughness, optical quality, and resistance to severe heat.
PETG	<i>Polyethylene Terephthalate Glycol</i> is typically used for packaging applications such as blister packs and bottles.
Polycarbonate	Commonly referred to as <i>Lexan®</i> ; characterized by toughness, heat resistance, and optical quality.
Propionate	<i>Cellulose Propionate</i> is a plastic used for injection molded optical face shields used for high performance applications.
Tritan	Characterized by excellent resistance to a wide variety of chemicals.

Product Terminology

Antifog	A coating on a face shield that prevents fogging or misting in a wide range of temperatures and conditions.
Bump Cap	A lightweight cap that does not meet the test requirements of a hard cap or hardhat.
Calorie	A unit of measuring energy or heat.
Cam-Lock	The fastener on the cap/hat bracket or headgear that attaches to the face shield.
Cap Bracket	A device that allows the mounting of a face shield to a hard cap.



Chin Protector	The portion of a face shield that offers protection to the wearer's chin, lower face, and neck.
Cobalt Blue	A blue tint for face shields and goggles that reduces bright yellow/orange (sodium line) of the visible light spectrum typical of gas welding applications and furnace operations.
Cover Lens	A disposable pane of clear material to protect face shields and goggle lenses from damage.
Cover Plate	The outer disposable cover lens for a welding helmet or goggle.
Dark Green	ANSI Z87.1 defines dark green as a face shield color transmitting visible light at 14%, $\pm 4\%$.
Die Cut	A fabrication process that cuts parts from sheets of plastic or other materials.
Dielectric	A nonconductor of electrical current.
Face Shield	A protective device commonly intended to shield the wearer's face, or portions thereof, in addition to the eyes, from certain hazards. Face shields are secondary protectors and should be used only with primary eye protection.
Face Shield Kit	A face shield used in combination with headgear or mounting device.
Flat	Refers to the shape of the face shield. A flat face shield must wrap around the spark guard and will not provide the fit of a formed face shield.
Formed	Refers to the shape of the face shield. A formed face shield conforms to the shape of the spark guard or other attachments, and is considered superior in fit, feel, and function to flat face shields.
Hard Cap	A safety helmet that has a front brim.
Hardhat	A safety helmet that has a brim that extends around the helmet.
Hat Bracket	A device that allows the mounting of a face shield to a hardhat.



Injection Molded	The method of forming objects from granular or powdered plastics in which the materials are fed from a hopper to a heated chamber in which it is softened, after which a ram or screw forces the material into a mold. Pressure is maintained until the mass has hardened sufficiently for removal from the mold. Paulson injection molded shields feature improved optical & physical characteristics, while the formed shape also improves comfort & safety.
Metalized	A coating on the front of a face shield that is designed to reflect UV, IR, and reduce visible light.
Nanoparticles	Inorganic material particles between 1 and 100 nanometers (nm) in size with a surrounding interfacial layer. Their application in Paulson shields allows the use of higher quality polycarbonate material, resulting in higher impact value, as well as slower degradation rate and compatibility with higher quality protective coatings, all of which extend the service life of the product.
Not Warranted Shatterproof	A warning statement that applies to all face and eye protection devices. The statement notes this potential for any face and eye protection.
Primary Protection	A device such as safety spectacles or goggles which may be worn alone or in conjunction with a secondary protector.
QuickView	Paulson's line of flip-front face shields that feature a full-coverage clear face shield with a 4" or 6" flip-front shield available in shades 3-9, shade 5 cobalt blue, and gold-coated.
Safety/Cover Plate	A lens that can be used interchangeably as a cover plate and/or safety plate in welding applications.
Secondary Protection	A device worn only in conjunction with a primary protector. Face shields are classified as secondary protectors.
Shade 5	ANSI Z87.1 defines shade 5 as a face shield color that meets specific UV, IR, and visible light requirements. The visible light requirement is a maximum of 3.16% and minimum of 1.18%.
Spark Guard	The portion of a headgear that protects the wearer's forehead. Also known as a crown protector.

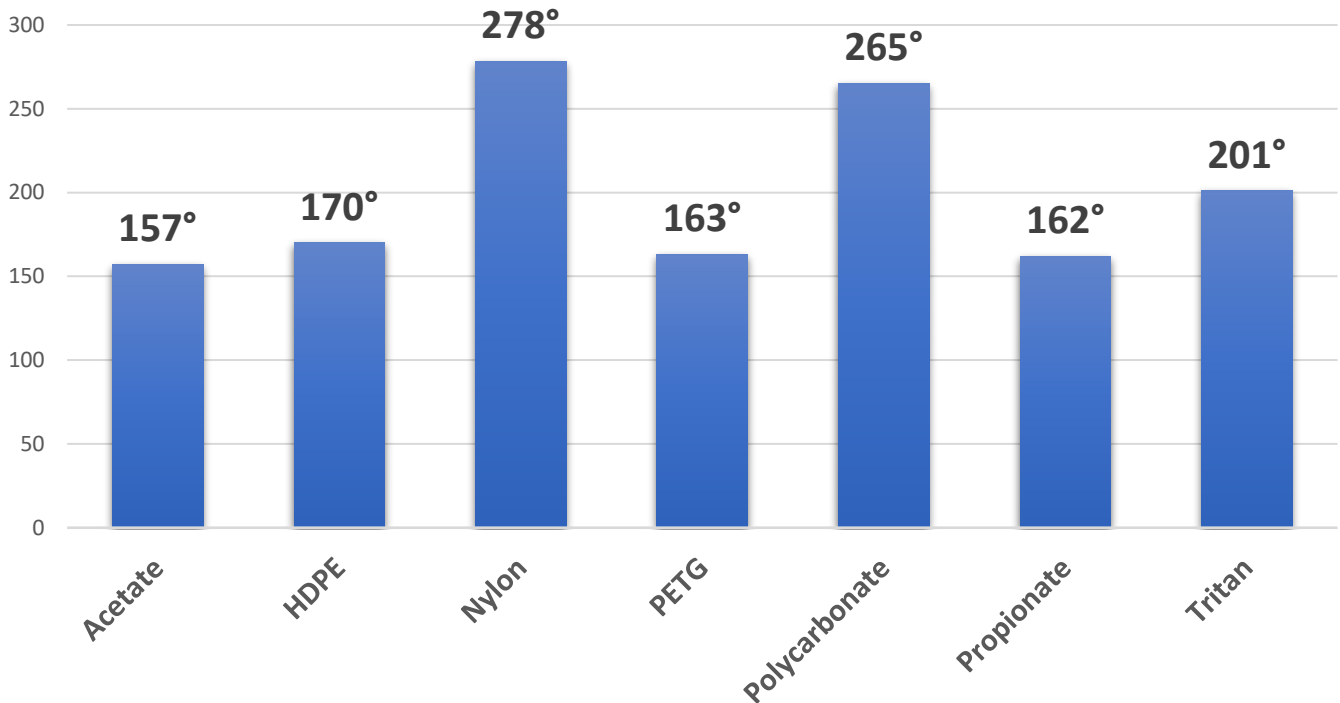


National Safety Standards Met by Paulson Products

STANDARD	DEFINITION	GOVERNING BODY
ANSI Z87.1	Provides minimum requirements for eye and face protective devices in the workplace, including selection, use and maintenance of the devices.	American National Standards Institute
ANSI Z87.1+	Provides minimum requirements for high velocity impact eye and face protective devices in the workplace, including selection, use and maintenance of the devices.	American National Standards Institute
ANSI Z87.1+S	Provides minimum requirements for high velocity impact specialty eye and face protective devices in the workplace, including selection, use and maintenance of the devices.	American National Standards Institute
ASTM F2178	Standard test method for determining the arc rating and standard specification for eye or face protective products.	American Society for Testing & Materials
NFPA 70E	The standard for electrical safety in the workplace.	National Fire Protection Association
NFPA 1951	The standard on protective ensembles for technical rescue Incidents.	National Fire Protection Association
NFPA 1971	Protects firefighting personnel by establishing minimum levels of protection from thermal, physical, environmental, and blood borne pathogen hazards encountered during structural and proximity firefighting operations.	National Fire Protection Association
NFPA 1977	The standard on protective clothing and equipment for wildland firefighting.	National Fire Protection Association
NIJ 0104.02	The standard that establishes requirements and methods of test for helmets and face shields to be worn by law enforcement officers during civil disturbances, riots, or other situations that pose a threat of injury from blows to the head	National Institute of Justice

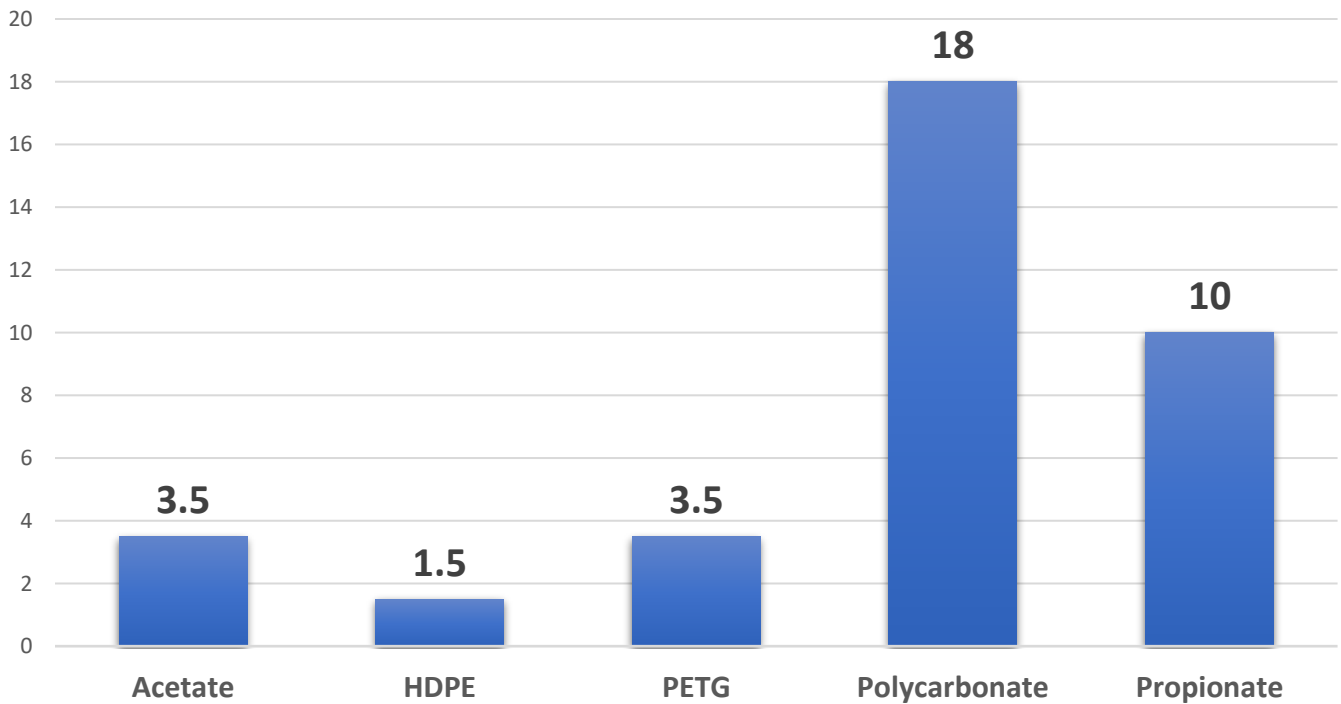


Heat Distortion Temperature (Fahrenheit)





Izod Impact Value (J/m²)





Light Transmittance (%)

