

Technical Data Sheet

Aerospace Transparencies



Sikorsky S-92® Helicopter Windshields and Windows



U.S. Navy Photo Mass Communication Spc. 3rd Class Joshua Card

Windshield

Features	Benefits
Original-equipment supplier	<ul style="list-style-type: none">• Proven reliability• Latest design and upgrades• Worldwide customer and technical support
Acrylic-polycarbonate laminate	<ul style="list-style-type: none">• Superior bird-strike performance• Superior optics• Superior environmental durability• Lightweight
Inboard protective coating	<ul style="list-style-type: none">• Enhances service life• Chemical, abrasion and scratch resistance
Proprietary heating system	<ul style="list-style-type: none">• Uniform, full-coverage heating• Superior optics
Proprietary coatings	<ul style="list-style-type: none">• Operational and environmental protection

Side jettison window assembly

Features	Benefits
Aerospace-quality stretched acrylic	<ul style="list-style-type: none">• Proven reliability• Superior environmental durability
Composite frame	<ul style="list-style-type: none">• Superior strength• Window assembly construction for replacement ease

A leading and experienced manufacturer of windshields, canopies, windows, blast barriers and specialty transparencies for military applications, PPG's aerospace business has a broad range of capabilities to design and produce advanced-technology transparencies that meet the demanding requirements of military air and surface operations.

PPG offers a variety of transparent structural materials tailored to aerospace applications.

Plastic substrate materials currently in production include acrylic that is strong and lightweight, and polycarbonate that has superior impact resistance and a high strength-to-weight ratio. PPG also is developing exciting, new transparent structural materials with superior structural properties that have the potential to replace both acrylic and polycarbonate.

For example, PPG OPTICOR™ Advanced Transparency Material provides unprecedented performance and unique design capabilities that meet the demanding needs of today's aerospace industry. This innovative high-performance, proprietary PPG plastic is superior to other commonly used aerospace plastics, offering exceptional resistance to abrasion, chemicals, ultraviolet degradation and fire. Because it resists crazing, PPG *Opticor* Advanced Transparency Material maintains optical clarity. It has lower density than stretched acrylic and low moisture absorption, and it is an excellent substrate for metallic and nonmetallic coatings. Unique non-uniform shapes can be created with PPG *Opticor* Advanced Transparency Material.

PPG proprietary interlayers bond the plies together and provide ballistic properties, bird-impact resistance and pressure "fail-safe" capability.

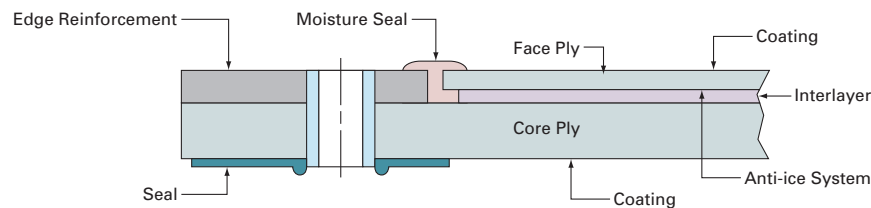
Proprietary electrical heating systems provide anti-ice/anti-fog protection.

PPG advanced coatings and technologies help protect transparencies and aircrews from operational or environmental threats, and provide a variety of performance enhancements. A few of these are solar heat reduction, laser protection, and electromagnetic interference (EMI) shielding. Such technologies are designed to be compatible with night vision systems and other optical requirements.

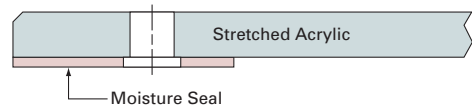
PPG transparencies have flown and participated in numerous air and surface military missions. The company is a leader in its transparency technical capabilities and infrastructure, OEM and operator support, and ability to supply parts worldwide on a timely and affordable basis.

Sikorsky S-92[®] Helicopter Windshields and Windows

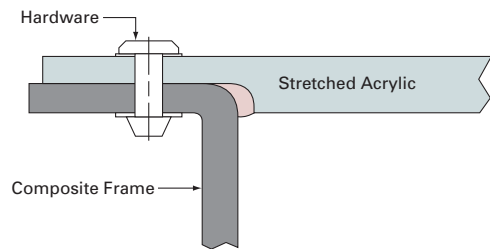
Windshield



Observation window



Side jettison window assembly



Part numbers	PPG	OEM
Pilot main windshield	182100-15	92206-01801-107
Copilot main windshield	182100-16	92206-01801-108
Pilot cockpit side jettison window assembly	182300-07	92206-01103-021
Copilot cockpit side jettison window assembly	182300-08	92206-01103-022
Pilot upper observation window	182400-01	92206-01804-101
Copilot upper observation window	182400-04	92206-01804-103
Pilot lower observation window	182200-01	92206-01802-101
Copilot lower observation window	182200-02	92206-01802-102
Pilot cabin window assembly and installation kit	500783-01	92206-02513-013
Copilot cabin window assembly and installation kit	500783-02	92206-02513-014
Pilot cabin window installation hardware	500784-01	
Copilot cabin window installation hardware	500784-02	
Clarity Transparency Cleaning System	599306	

CLARITY[™] Transparency Cleaning System

PPG CLARITY[™] Transparency Cleaning System was developed for easy removal of debris on plastic transparencies while adding protection to facilitate future cleanings and potentially increase service life. In a two-part process, a wet wipe saturated with a proprietary blend is applied to the substrate to remove superficial debris, and then a dry wipe is used to take off any haze. Kits containing both types of wipes are available. Contact your PPG aerospace sales representative for more information and to order PPG *Clarity* Transparency Cleaning System.

Ordering Information

Orders may be placed through PPG aerospace's worldwide network of application support centers (ASCs). For the ASC nearest you, visit www.ppgaerospace.com.

In North America, call toll-free +1 (800) AEROMIX.

Pricing, warranty and delivery details are available from your PPG aerospace sales representative.

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