

### Lockheed Martin P-3 Orion windshields



#### Main windshields, center windshield

Features	Benefits
Original-equipment manufacturer	<ul style="list-style-type: none"> <li>• Proven reliability</li> <li>• Latest design and upgrades</li> <li>• Worldwide customer and technical support</li> </ul>
Thermally tempered aerospace glass	<ul style="list-style-type: none"> <li>• Chemical, abrasion and scratch resistance</li> <li>• Superior optical quality</li> <li>• High load-carrying capabilities</li> <li>• Excellent resistance to foreign object damage</li> <li>• Resists thermal shock</li> </ul>
PPG NESAs <sup>®</sup> anti-ice heating system	<ul style="list-style-type: none"> <li>• Full-coverage heating</li> <li>• Superior optics</li> </ul>

#### Side windshields

Features	Benefits
Original-equipment manufacturer	<ul style="list-style-type: none"> <li>• Proven reliability</li> <li>• Latest design and upgrades</li> <li>• Worldwide customer and technical support</li> </ul>
Aerospace-qualified stretched-acrylic laminate	<ul style="list-style-type: none"> <li>• Lightweight</li> <li>• Superior environmental durability</li> </ul>
PPG Sierracote <sup>™</sup> anti-ice heating system	<ul style="list-style-type: none"> <li>• Full-coverage heating</li> </ul>

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

PPG offers a variety of transparent structural materials to meet specific design and performance requirements. In-house capabilities allow PPG to engineer and produce transparent materials specially tailored to aerospace applications.

PPG's thermally tempered aerospace glass offers impact and thermal shock resistance as well as high load-carrying capabilities. PPG's chemically strengthened aerospace glass provides superior strength and durability. Special-composition glasses afford enhanced optical properties such as high light transmittance especially in the near infrared (IR) range, enabling PPG to produce windshields compatible with today's sophisticated night vision systems.

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. In development are exciting, new materials with superior structural properties that have the potential to replace both acrylic and polycarbonate.

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

PPG AIRCON<sup>®</sup>, NESAs<sup>®</sup>, NESATRON<sup>®</sup> and SIERRACOTE<sup>™</sup> electrical heating systems provide anti-ice/anti-fog protection. Other 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.

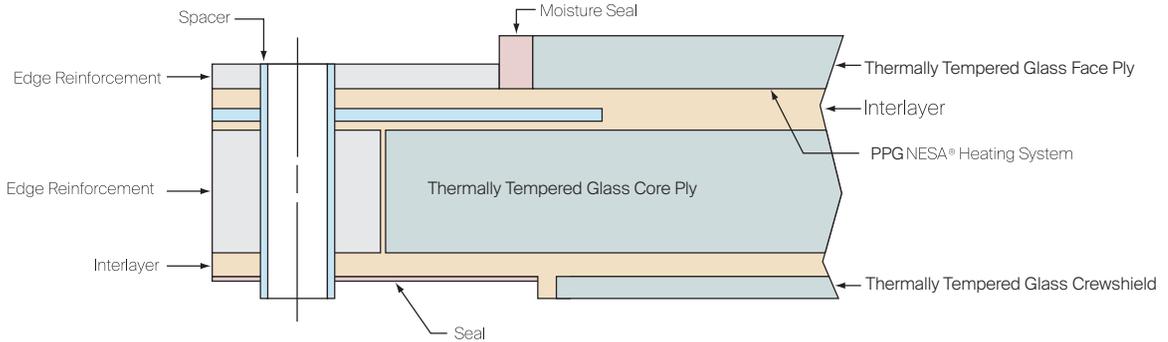
PPG transparencies have flown and participated in numerous air and surface military missions. The company is a leader in its transparency technical capabilities and infrastructure, OEM and operator support, and ability to supply parts worldwide on a timely and affordable basis.

#### Additional information

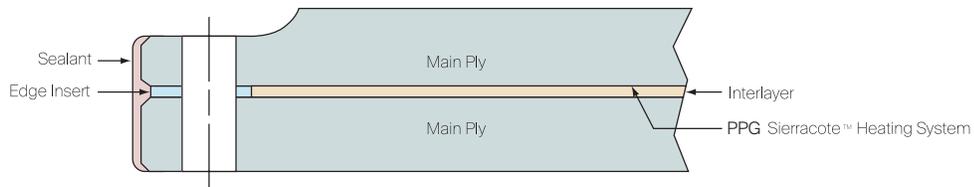
Details on pricing, warranty and delivery are available by contacting your PPG's aerospace transparencies sales representative or customer service representative.

# Lockheed Martin P-3 Orion windshields

## Main windshields, center windshield



## Side windshield



## Part numbers

Windshield transparencies	PPG part number	U.S. national stock number	Lockheed Martin part number
Main, left-hand	LO-009702	1560-00-866-6686	900852-101
Center	LO-009502	1560-00-866-6687	900853-101
Main, right-hand	LO-009602	1560-00-866-6692	900852-102
Side, left-hand	147900-03	1560-00-239-0342	943536-109
Side, right-hand	147900-04	1560-00-239-0343	943536-110

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