TECHNICAL DATA

WINDSHIELDS AND WINDOWS
Sikorsky S-92® Helicopter

A leading and experienced manufacturer of windshields, canopies, windows, blast barriers and specialty transparencies for military applications, PPG Aerospace 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, new 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, 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 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/antifog protection.

PPG advanced coatings and technologies help protect transparencies and aircrews from various operational or environmental threats, and provide low-observable performance, solar heat reduction, laser protection, and electromagnetic pulse (EMP) 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.

CLARITY® Transparency Cleaning System

PPG has developed Clarity Transparency Cleaning System 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 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.