

TECHNICAL DATA

WINDSHIELDS

Bombardier* Learjet* 40*, Learjet 45*, Learjet 40 XR* and Learjet 45 XR*



PPG Aerospace – Transparencies is a leading and experienced manufacturer of replacement windshields for *Bombardier Learjet 40, Learjet 45, Learjet 40 XR and Learjet 45 XR* aircraft.

Following a history as the original manufacturer of OEM windshields for these aircraft, PPG Aerospace has qualified its lightweight windshield for direct aftermarket sale to the benefit of operators. The unique composite windshield is the same PPG supplies to Bombardier for spares. As a Bombardier supplier, PPG is able to offer replacement transparencies that are upgraded to the latest design configuration.

The windshield is a glass-faced polycarbonate-acrylic laminate, combining the toughness and chemical resistance properties of glass with the weight-saving benefits of plastic. Two polycarbonate main plies have a high strength-to-weight ratio and provide high impact resistance, while an acrylic inboard ply affords scratch resistance. Replacement windshields produced by PPG provide operators with outstanding optical properties and cost-effective performance.

Operators of *Learjet 40, Learjet 45, Learjet 40 XR and Learjet 45 XR* aircraft know they can count on PPG Aerospace for transparencies that provide significant value because of their reduced life-cycle cost as a result of their lightweight design.

Windshield

Features

Composite Windshield Technology

Polycarbonate Main Plies

Bombardier Supplier

Glass Face Ply

Acrylic Inboard Ply

Urethane Interlayer

Anti-ice Heating System

Surface Seal® Coating

PR-1425CF Moisture Seal

Bird-Impact Resistant

Benefits

- Advantages of polycarbonate combined with advantages of glass and acrylic
- Superior optics
- Lightweight

- High strength-to-weight ratio
- High bird-impact resistance

- Same PPG part that is available through Bombardier
- Meets fit requirements
- Flight-tested for optics

- Chemical and abrasion resistance

- Abrasion resistance to protect polycarbonate

- Highly resistant to moisture damage through UV-stabilization for increased service life
- Low-temperature elasticity with reduced potential for delamination and cold-chipping
- Maximum adhesion to polycarbonate, glass and acrylic for resistance to delamination

- Excellent heating uniformity
- Excellent powered optics

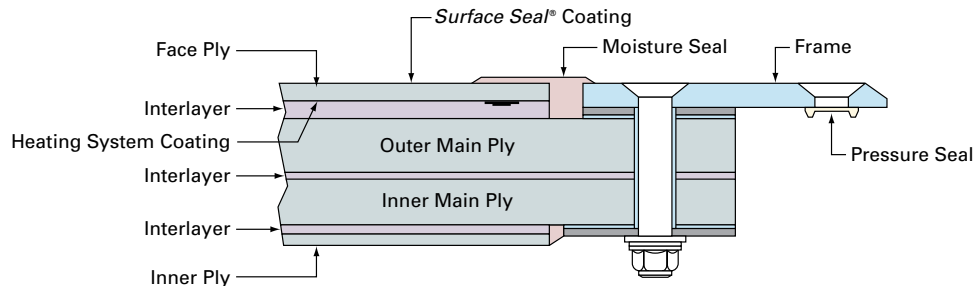
- Hydrophobic coating improves water shedding for better visibility in rain conditions

- Chromate-free "green" formulation
- Fast curing to get aircraft flying sooner after maintenance
- Low moisture vapor transmission for better resistance to moisture ingress

- Design tested to withstand impact of 4-pound bird at 330 knots

BOMBARDIER LEARJET 40, LEARJET 45, LEARJET 40 XR AND LEARJET 45 XR

Windshield



Part Numbers

Pilot Windshield	173600-23
Copilot Windshield	173600-24
Pressure Seal, Pilot Windshield	173630-01
Pressure Seal, Copilot Windshield	173630-02
Hump Seal Repair KitHSKLEAR45

SURFACE SEAL® Coating by PPG

Surface Seal coating by PPG is applied to all replacement windshields for *Learjet 40*, *Learjet 45*, *Learjet 40 XR* and *Learjet 45 XR* aircraft. Hydrophobic *Surface Seal* coating dramatically improves the ability of the windshields to shed water, providing the ultimate in visibility for pilots during wet conditions. *Surface Seal* coating kits are available for field application.

Hump Seal Repair Kits

A windshield's outboard moisture seal, or hump seal, is subjected to wind and rain erosion and UV exposure, causing it to degrade over time. A well-maintained seal protects against moisture ingress, a leading cause of premature service life failure. Seals can be repaired to OEM specification using PPG hump seal repair kits. Designed for specific aircraft, the kits contain everything needed to perform on-wing repair of outboard moisture seals and extend windshield service life. Ask your PPG representative for details.

Ordering Information

Orders may be placed through PPG Aerospace's worldwide network of application support centers (ASCs) and sales offices. For the ASC or sales office 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 – Transparencies sales representative.



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