

# TECHNICAL DATA

## WINDSHIELDS

### Merlin and Metroliner



Metroliner

#### Main Windshield

Features	Benefits
All-Glass Design	<ul style="list-style-type: none"> <li>• Scratch resistance and craze-free</li> <li>• Chemical and abrasion resistance</li> </ul>
Herculite® Thermally Tempered Glass	<ul style="list-style-type: none"> <li>• High load-carrying capabilities</li> <li>• Superior optical quality</li> </ul>
Urethane Interlayer	<ul style="list-style-type: none"> <li>• Provides maximum adhesion for resistance to delamination and extends service life</li> <li>• Elasticity at low temperatures reduces potential for delamination and cold chipping</li> </ul>
Aircon® Anti-ice System	<ul style="list-style-type: none"> <li>• Proven reliability</li> <li>• Uniform heating and improved hot-optics</li> </ul>
PR-1425 Polysulfide Moisture Seal	<ul style="list-style-type: none"> <li>• Provides superior protection against moisture ingress</li> </ul>
Bird-Impact Resistant	<ul style="list-style-type: none"> <li>• Tested to withstand an impact of a 2-pound bird at 169 knots</li> </ul>
PPG Edge Seal	<ul style="list-style-type: none"> <li>• Helps reduce moisture penetration</li> </ul>
Redundant Antistatic Drain	<ul style="list-style-type: none"> <li>• Redundancy prevents loss of connection as a result of damage during maintenance or repair</li> </ul>
Spare Sensing Element	<ul style="list-style-type: none"> <li>• Exclusive connections</li> <li>• No common wire, preventing single-point fault failure of windshield</li> </ul>
Superior Terminal Block Design	<ul style="list-style-type: none"> <li>• High durability</li> <li>• Flame-retardant material</li> </ul>
Surface Seal® Coating	<ul style="list-style-type: none"> <li>• Hydrophobic coating improves water shedding for better visibility in rain conditions</li> </ul>

PPG Aerospace was the original manufacturer of windshields for the Merlin and Metro airplanes. Building on that experience, PPG secured approval through a Supplemental Type Certificate and has re-entered the marketplace with a superior windshield design that incorporates today's technology while maintaining compliance with structural, form, fit and function requirements.

The windshields are made of two plies of HERCULITE® thermally tempered glass to provide optical clarity while affording chemical, abrasion, scratch and crazing resistance.

To reduce the potential for moisture ingress, a key factor in service life, the windshield has an edge seal and PR-1425 polysulfide moisture seal. Proprietary urethane interlayers adjacent to the glass plies provide superior performance under extreme temperatures with a moisture-resistant bond for the outboard and core glass plies.

These windshields have an improved terminal block design for durability and flame retardance both horizontally and vertically. A spare heating system temperature-sensing element has exclusive connections for independent operation and redundancy. Redundant antistatic drain locations prevent loss of connection as a result of damage during maintenance.

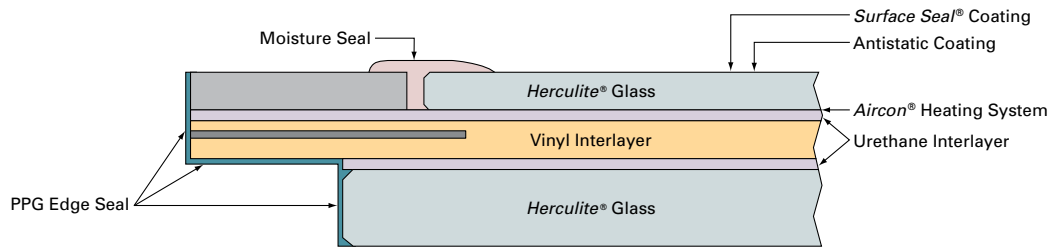
Operators know they can count on PPG Aerospace for transparencies that provide significant value because of their reduced life-cycle cost as a result of their exceptional service life.

#### SURFACE SEAL® Coating by PPG

*Surface Seal* coating by PPG is applied to all replacement windshields for Merlin and Metro airplanes. 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.

# MERLIN AND METROLINER

## Main Windshield



## Part Numbers

	PPG Part Number	Replaces OEM Part Number
Pilot Windshield	NP-203201-1	26-21126-005
		26-21126-007
		26-21126-905
		26-21126-907
		26-21126-9005
		26-21126-9007
		27-19482-001
		27-19442-XXX
		26-21126-006
		26-21126-008
Copilot Windshield	NP-203201-2	26-21126-906
		26-21126-908
		26-21126-9006
		26-21126-9008
		27-19482-002
		27-19442-XXX

## 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](http://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.



**PPG Aerospace**  
Transparencies

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