



800-251-0441
www.afglass.com

Dual Seal ADVANTAGE™

is a complete, warm-edge insulating system designed to provide your customers with a proven patio door replacement unit at a competitive price.

Independent testing (see chart below) demonstrates the superiority of Dual Seal ADVANTAGE™ (DSA) over a wide variety of competitive insulating products. In the brutal P1 exposure test, DSA exceeded 60 weeks without a seal failure. This is 50% better than the nearest competitive sealant (PIB/LIL/CC) combination.

For large patio door IGs, the performance issues have always revolved around adhesion of the spacer to the glass, moisture vapor transmission and gas retention. DSA has been independently tested and determined superior in both material strength (300 psi), and resistance to moisture vapor transmission 3.8 GMS/sq. MTR/day), and judged excellent in gas retention based upon the DIN 1286 testing protocol.

Dual Seal Advantage features PRC® 590 which is a patented, one-part, chemically curing,

silicone modified, polyurethane sealant used in the production of high performance insulating glass units. The attractive gray sealant provides outstanding resistance to weathering, ozone, and solar radiation by providing a chemical adhesion system which bonds the glass and spacer. PRC 590 provides excellent performance in either residential or commercial applications because it exhibits similar strength and performance characteristics of conventional thermoset two-part systems.

The desiccated matrix, PRC® 525DM-60, also gray, is a one-part, polymer-based matrix with a desiccant loading of 60% (minimum). For further information, visit their web site at www.prc-desoto.com.

Dual Seal ADVANTAGE™ is backed by AFG Insulating's 10-year limited warranty.

Insulating Glass Sealant Comparison

	POLYSULFIDE	POLYURETHANE	HOT MELT	PRC 590
Material Strength	175 PSI	200 PSI	50 PSI	300 PSI
Tensile (2 weeks)	200% Elongation	250% Elongation	500% Elongation	200% Elongation
Moisture Vapor Transmission Rate Gms/Sq. Mtr/Day	25	18	4	3.8
Industry Standard ASTM E773	Pass	Pass	Pass/Fail	Pass
Shore A Hardness				
-10°F	45	55	91	65
120°F	30	45	20	50
Gas Retention DIN 1286	Excellent/Good	Excellent	Poor	Excellent

The PRC®590 sealant used in AFG Insulating's Dual Seal Advantage has a clear performance advantage over the industry's most popular sealants.

IG Sealant Configurations — P-1 Exposure Testing

Spacer Types

PIB/PS/PU

18

PIB/Sil/OC

20

PIB/Sil/CC

40

Dual Seal ADVANTAGE

65

Weeks' Exposure

For patio door units, the combination of Dual Seal Advantage sealant, spacer, and quality work processes exceeds the performance of familiar competitors.

Please call for further information, samples and quotations. AFG Insulating is a leader in customer service and insulating glass quality because we make what you want.



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