



INSULATING GLASS LINE

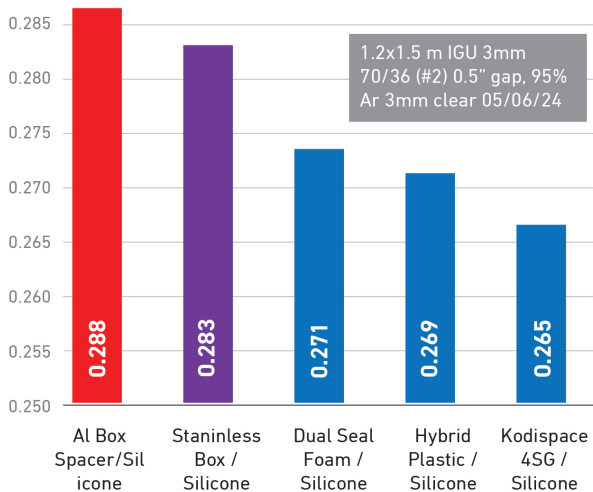
WITH REACTIVE
THERMOPLASTIC
SPACER



Building on our introduction of the Reactive Thermoplastic Warm Edge System, this sheet delves into the enhanced capabilities and advantages of our new Forel Insulated Glass Line. Designed for superior performance and energy efficiency, the Reactive TPS IGU system is poised to revolutionize the glass industry with its unmatched durability and advanced features.

WARM EDGE SYSTEM COMPARISON

Reactive TPS® sets the standard in edge seal performance with its significantly lower Edge Seal U-Factor, ensuring superior insulation and reduced heat loss.



Note: Data table provided by H.B. Fuller

ENHANCED CAPABILITIES:

- All-in-one IGU system that accommodates sizes from 12.6" x 7" to jumbo 130" x 240" with multiple configurations.
- Overall unit thickness is 80mm maximum.
- Easily produces 3-sided offsets on-line.
- Multi-functional with a seamless transition from Reactive TPS® and Traditional Spacer production.
- Integrated rotating/tilting conveyer enables the highest quality production of double and triple Low-e units.

ADVANTAGES:

- Longer-lasting IGU performance with less worry about maintenance and replacement costs
- Enhanced durability and protection to maintain edge integrity even under high pressure.
- Reliable and superior adhesion through chemical bonding.
- Bonds to Ceramic Frit, maintains optimal seal integrity even on challenging surfaces
- Compatibility with common secondary sealants including silicone and polysulfide.
- Clean consistent application maintains an aesthetic uniformity.

REACTIVE THERMOPLASTIC SPACER

REACTIVE TPS® [KODISPACE 4SG]

Reactive TPS® is a revolutionary warm edge spacer system featuring a built-in desiccant. This innovative system completely replaces the traditional spacer systems, integrating the spacer, desiccant, and primary seal into a single solution. This spacer system is engineered for superior performance, energy efficiency, versatility, and durability, enhancing glass projects significantly.

PERFORMANCE COMPARISON

	Reactive TPS®	Foam Spacer	Hybrid Spacer	Stainless Steel
Gas Retention	●●●	●○○	●●○	●●○
Thermal Conductivity	●●●	●●●	●●●	●○○
Flexibility	●●●	●●○	●○○	●○○
Robotically Applied	●●●	●●●	-	-
Asthetics	●●●	●●○	●○○	●○○
Durability	●●●	●●○	●●○	●●○
Chemical Bonded to Glass	●●●	-	-	-
Higher Temperature Stability	●●●	-	-	-
Automated Thickness Application	●●●	-	-	-

Note: Data table provided by H.B. Fuller



SUPERIOR GAS RETENTION

Reactive TPS® sets itself apart among spacer materials with its advanced warm-edge solution and unmatched gas retention, consistently maintaining over 90% Argon content. This exceptional gas retention enhances long-term energy efficiency, making Reactive TPS® the premier choice for glass industry projects focused on sustainability and performance.

Edge Seal Comparison - Progressive Weathering [EN1279-3]											
	Initial Argon Content	Round 1	Round 2	Round 3	Round 4	Round 5	Round 6	Round 7	Round 8	Round 9	Round 10
Reactive TPS®	99	98	98	97	96	96	95	94	94	93	92
Aluminum Spacer	93	93	92	92	91	89	Frost Point Failure				
Hybrid Spacer #1	92	92	91	90	89	86	Frost Point Failure				
Hybrid Spacer #2	91	90	90	90	86	Frost Point Failure					
Foam Spacer	95	93	85	Frost Point Failure							

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