

# TPS

## THERMOPLASTIC SPACERS

### A UNIQUE WARM-EDGE SYSTEM

Thermoplastic spacer, more commonly known as TPS, is a unique warm-edge glass spacer system with several advantages. The benefits of TPS include:

#### Comfort

- Better home comfort due to reduced condensation and improved interior comfort in living spaces

#### Energy Efficiency

- TPS produces an energy efficient system that promotes increased U-Values, reducing energy costs

#### Quality

- An optimal sealing barrier is created by TPS preventing loss of argon gas and resistance to moisture, maximizing the lifespan of the sealed unit

#### Aesthetic Appeal

- TPS comes in a matte black finish that reflects the colour of the window frame, making the spacer almost invisible

#### Design Flexibility

- The TPS system creates the ability to fabricate unique insulated glass shapes with consistently high quality

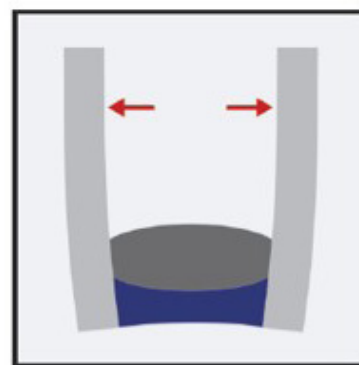


Started in Germany in 1974, TPS technology has continued to be refined and improved over time. The first TPS line was introduced in 2010 and the most recent developments are a reactive TPS system called the Kodispace 4SG, the only one of its kind. Reactive TPS better combats spacer migration seen in the past with incompatible glazing systems. By building a chemical bond to the glass and the secondary sealant, the Kodispace 4SG TPS system creates one cohesive edge seal system. Reactive TPS is featured in structures around the world which are required to comply with rigid performance standards. There are over 50 lines running in the world with this technology and well over 150 million square feet has been installed. Boasting an unparalleled lifespan, TPS has reported less than 0.1% warranty defects in North America due to spacer failure.

### THE TPS ADVANTAGE

TPS keeps the insulated glass unit reliably tight while maximizing the lifespan by protecting the sealed unit from extreme changes in weather.

- TPS is extruded directly between the glass panes, creating a homogeneous and continuous edge seal
- TPS is made from PIB (polyisobutylene) with an integrated desiccant, eliminating the need for a foil layer due to its moisture resistance and guaranteed edge seal tightness
- TPS remains flexible allowing the insulated glass unit to compensate for changes in climate, wind and thermal expansion
- An optimal sealing barrier is created with the TPS. This prevents loss of argon gas and moisture penetration
- 100% tight seal from beginning to end of the application
- Eliminates the need for extra butyl at joints and corners for a clean fit and finish.



*TPS remains flexible and retains a 100% seal when the insulated glass unit experiences stress.*

# TPS

## THERMOPLASTIC SPACERS

### ENERGY EFFICIENCY

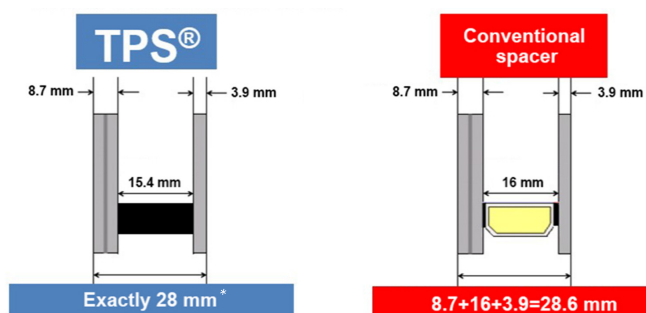
TPS offers top class PSI values meaning there is minimal heat loss that occurs along the linear thermal bridge at the glass edge. The biggest heat loss junctions tend to be around window frames and TPS technology minimizes that risk resulting in increased U-Value performance. These higher U-Values result in greater energy efficiency and reduced energy costs for the envelope.

### PRECISION

With TPS, the fully automatic application of the spacer helps achieve the greatest precision possible, leading to visually flawless results.

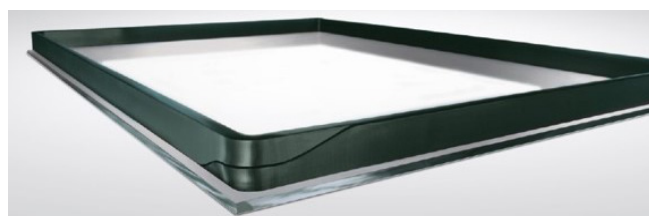
Exact spacer positioning is now possible with triple glazing. Traditional manual methods can create spacer misalignment which mars the visual appearance of the insulated glass unit. This precise system yields a perfect spacer alignment every time.

The automation of the spacer application also means specific spacer widths are no longer a challenge.



### AESTHETICS

The matte black finish of TPS creates a nearly invisible appearance as it reflects the window frame.



*The precise, matte black finish gives TPS a unique, invisible look.*

### DESIGN FREEDOM

Designing shapes and curves for your project is now possible with TPS. TPS is extruded directly onto the glass, allowing large formats, curves and uniquely shaped insulated glass units.



For more information about our new TPS, please contact your Account Manager

\*Subject to change based on production tolerances