



## **THERMALBOND® V2100** **High-Strength Polyurethane** **Foam Spacer for Structural** **Glazing and Cladding**



- Open-cell foam structure allows air and moisture to reach silicone, permitting optimum curing
- High-strength polyurethane foam substrate is chemically compatible with all silicones tested\*
- The low thermal conductivity of the foam substrate reduces heat transfer and inhibits condensation on windows, doors and metal systems
- Excellent resistance to weather, fungi and oxidation
- Adhesive on one or two sides for easy placement
- Double-sided adhesive aids in stabilizing component position while silicone cures, even when vertically stacked
- Suitable for on-site structural glazing
- Thicknesses (T) and roll length (L) options: 3.2mmT X 15.2mL, 4.8mmT X 15.2mL, 6.4mmT X 15.2mL, 9.5mmT X 7.6mL, 12.7mmT X 6.1mL
- Width options: 6mm, 9mm, 12mm and custom

### **APPLICATIONS**

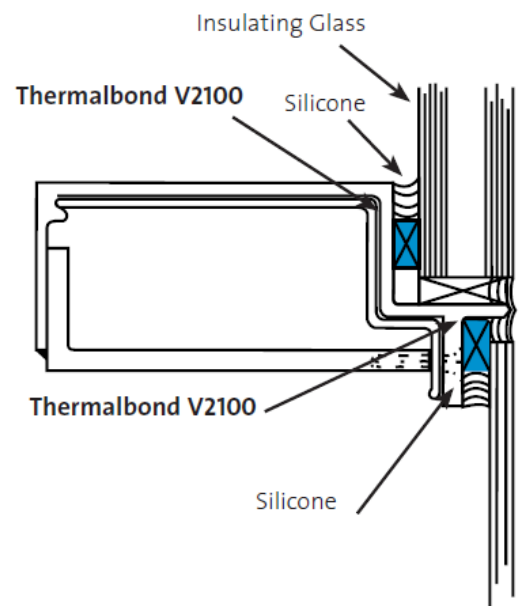
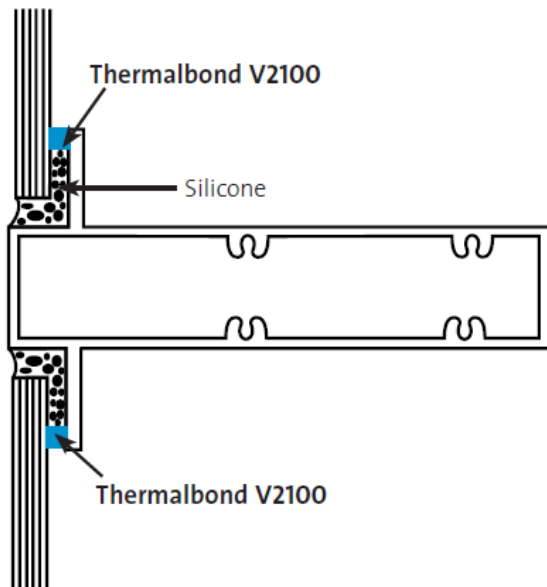
- Superb spacer for two- and four-sided structural glazing systems
- Thermal break on storm windows and doors
- Die-cut for vibration dampening
- Conventional glazing interior spacer
- For clear, lightly tinted or monolithic glass, single-sided Thermalbond adhesive is recommended to reduce the visual impact of any air pockets sometimes induced during the panel fabrication process.
- Thermalbond® V2100 features a polyethylene liner that removes easily without tearing. The dual-sided pressure-sensitive acrylic adhesive bonds to metal and glass while the semi-rigid foam substrate maintains spacing.

Thermalbond® is a registered trademark.



## THERMALBOND® V2100

### High-Strength Polyurethane Foam Spacer for Structural Glazing and Cladding



Please NOTE: Thermalbond V2100 is a SPACER material and not intended to be a structural component.  
**Storage:** Material should be stored at 70 °F (21°C), 50% relative humidity.

### Typical Physical Properties

| Property   | Value                           |
|--|---------------------------------|
| Density: lbs./cu. ft. (kg/m <sup>3</sup> )                               | 31 (497)                        |
| Force to Compress 10%: psi (kPa)   | 31 (214)                        |
| Hardness: Shore A  | 35                              |
| Elongation: %  | 125                             |
| Dynamic Tensile Adhesion: psi (kPa), 15-minute dwell                     | 55 (379)                        |
| Dynamic Shear Adhesion: psi (kPa), 15 minute dwell                       | 40 (276)                        |
| Static Shear Adhesion: Hours 1 psi load                                  | 2000+                           |
| Thermal Conductivity K factor: BTU•in/hr•ft <sup>2</sup> •°F (w/m•°C)    | 55 (0.08)                       |
| Migratory Staining of Acrylic Enamel: 200 hours of ultraviolet at 140 °F | No Staining                     |
| Recommended Service Temp.:   | -40 °F (-40°C) to 180 °F (82°C) |
| Recommended Application Temp.:   | 60 °F (16°C) to 125 °F (52°C)   |

Thermalbond® is a registered trademark.



## Thermalbond® V2100 Application Guide

To ensure maximum adhesion of your product you must carry out the following steps.

1. Always test all products under actual application conditions prior to commercial use.
2. The material should be stored at 21deg C.
3. The product must be applied at the application temperature recommended on the product data-sheet.  
This should be a minimum of 20deg C. If a temperature-controlled environment is not obtainable in cold weather, we recommend warming the product and the contact surface with a hair dryer.
4. For maximum adhesive performance, preparing the contact surface correctly is crucial. Always prepare the contact surface by removing dirt, wax or moisture with a cleaning solvent. A typical cleaning solvent is a 50/50 isopropyl alcohol/water mixture. For added adhesion, it may be necessary to seal and/or prime the contact surface with Tite-R-Bond.
5. Peel a fraction of the liner from the tape and stick this to the surface. Continue to apply the tape to the first surface while pulling the liner back at the same time. When all tape is applied firmly rub down with full pressure to ensure full adhesive-to-surface contact.
6. Although bond strength is dependent on the substrate surface, application temperature and dwell time, it is recommended that 24 hours dwell time at room temperature be allowed before loading.

### Doubler-sided tapes

5. Apply the tape to the first surface with the liner on, and then firmly rub down. Remove the liner just prior to bonding surfaces together and apply full pressure to ensure full adhesive-to-surface contact.
6. Although bond strength is dependent on the substrate surface, application temperature and dwell time, it is recommended that 24 hours dwell time at room temperature be allowed before loading.

Thermalbond® is a registered trademark.