

# V2200 SERIES

## High-Strength, Polyurethane Foam Spacer For Structural Glazing

The **Thermalbond®** V2200 series is specially designed to provide the following features:

- Open-cell structure allows air and moisture to reach the silicone for optimum curing of the silicone
- Semi-rigid polyurethane foam is compatible with all silicone tested
- Low thermal conductivity improves the performance of the wall and can support LEED points
- Excellent resistance to temperature variations, fungi and oxidation

The **Thermalbond V2200G272** configuration offers the same benefits as the standard configuration with addition of:

- Gray foam core with UV stable gray pigmented adhesive coatings

The **Thermalbond Xpress®** (TBX2) configuration offers the same benefits as the standard configuration with addition of:

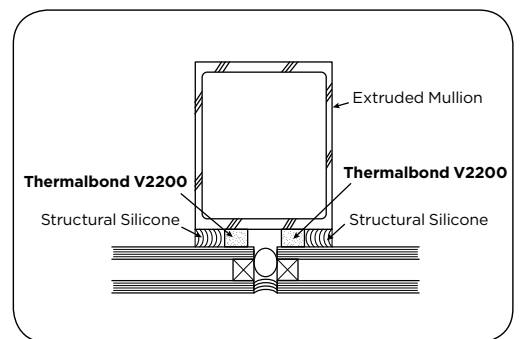
- Standard **Thermalbond** grade adhesive on one side ensuring an aggressive bond to aluminum profiles
- Low friction coating eliminates trapped air pockets and makes alignment of the glass simple and easy
- Adhesive will unwind from the specially treated top side of the foam which eliminates the need to have a separate liner to remove and recycle

### Available Sizes

Standard thickness: .125, .187, .250, .312 and .375 in.  
(3.2, 4.8, 6.4, 7.9 and 9.5 mm)

Master roll size: 56 in. (1422 mm) width. Slit rolls also available.

Standard roll length varies with thickness.



## APPLICATIONS

- Spacer for two- and four-sided structural glazing systems

## Thermalbond V2200 Series – Properties

Performance tests are run using standard test procedures. The values presented are typical values and should not be used for specification purposes.

| Property  | Test Method | Value or Rating |
|---|-------------|-----------------|
| Density: lbs./cu. ft. (kg/m <sup>3</sup> )                              | ASTM D1667  | 22 (352)        |
| Hardness: Shore A   | ASTM D2240  | 30              |
| Force to Compress 10%: psi (kPa)  | ASTM D1667  | 16 (110)        |
| Dynamic Tensile Adhesion: psi (kPa)* (15 min. dwell)                    | NTP-11      | 45 (310)        |
| Dynamic Shear Adhesion: psi (kPa)* (15 min. dwell)                      | NTP-5       | 30 (206)        |
| Static Shear Adhesion: Hours 1 psi load*                                | NTP-57      | 2000+           |
| Tensile Strength: psi (kPa)   | ASTM D412   | 130 (896)       |
| Elongation of Foam: %   | ASTM D412   | 105%            |
| Thermal Conductivity K factor: BTU•in./hr.•ft <sup>2</sup> •°F (w/m•°C) | ASTM C518   | .55 (.08)       |
| Migratory Staining of Acrylic Enamel: 200 hours of ultraviolet at 140°F | ASTM D925   | No Staining     |

\* NTP = Norton Test Procedure.

\* Adhesive properties do not apply for **Thermalbond XPress**.

## Thermalbond V2200 Series- Standard Configurations

| Black Adhesive<br>2 Sides | Gray Adhesive<br>2 Sides | Black Adhesive<br>1 Side | Thickness in. (mm) | Length in. (m) |
|---------------------------|--------------------------|--------------------------|--------------------|----------------|
| V2204                     | -                        | TBX204                   | .125 (3.2)         | 50 (15.2)      |
| V2206                     | V2206G272                | TBX206                   | .1875 (4.8)        | 50 (15.2)      |
| V2208                     | V2208G272                | TBX208                   | .250 (6.4)         | 50 (15.2)      |
| V2210                     | V2210G272                | TBX210                   | .3125 (8.0)        | 25 (7.6)       |
| V2212                     | V2212G272                | TBX212                   | .375 (9.5)         | 25 (7.6)       |

3 in. I.D. cardboard cores standard

## Liners

Easy release branded blue polyethylene liner is standard on V2200 and V2200G272.

## Important Instructions

Refer to silicone manufacturer to confirm compatibility information. Due to the numerous variables involved in a structural glazing system, each project should be individually lab tested by the silicone manufacturer for compatibility between **Thermalbond**, the structural silicone and all other adjacent components.

Surfaces must be clean and free of oil, grease, moisture, dust and dirt. Isopropyl alcohol is good for cleaning the surface.

Apply a uniform pressure of 15 psi (103 kPa) to promote good contact between the material to be bonded and the tape. The application temperature should be between 60°F and 125°F (16°C to 52°C). It is not recommended to apply these tapes at temperatures below 60°F (16°C), as the adhesive does not flow in this condition and can result in poor bonding.

Recommended service temperature is between -40°F to 180°F (-40°C to 82°C).

## Shelf Life

12 months after the date of sale when stored in original packaging at temperatures up to 70°F (21°C) and 50% relative humidity.



**IMPORTANT:** It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Performance Plastics products for all intended uses and that the materials to be used comply with all applicable regulatory requirements. Saint-Gobain Performance Plastics assumes no responsibility for any product failures that occur due to misuse of the materials it provides arising out of the design, fabrication or application of the products into which the materials are incorporated.

**WARRANTY:** For a period of 6 months, Saint-Gobain Performance Plastics warrants this product(s) to be free from defects in manufacturing. The only obligation under any applicable product warranty will be to replace any portion proving defective, or at our option, to refund the purchase price thereof. **SAINT-GOBAIN PERFORMANCE PLASTICS DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

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