

Thermalbond®

V2100 Series

Providing durable, long-lasting security

High-Strength, Polyurethane Foam Spacer For Structural Glazing

The Thermalbond® V2100 series is specially designed to provide the following benefits:

- 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 V2100G272 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™ (TBX1) configuration offers the same benefits as the standard configuration with addition of:

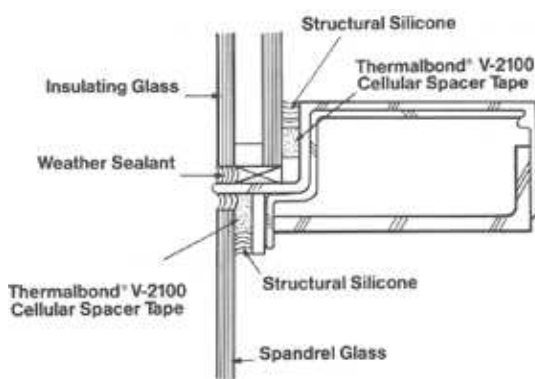
- Standard Thermalbond grade adhesive on one side ensuring an aggressive bond to aluminum profiles
- Low friction coating eliminates trapped air pockets and makes alignment of the glass simple and easy
- Adhesive will unwind from the specially treated top side of the foam which eliminates the need to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

Available Sizes

Standard thickness: .125, .187, .250, .312, .375 and .500 in. (3.2, 4.8, 6.4, 7.9, 9.5 and 12.7 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® V2100 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 ³)	ASTM D1667	31 (497)
Hardness: Shore A	ASTM D2240	35
Force to Compress 10%: psi (kPa)	ASTM D1667	31 (214)
Dynamic Tensile Adhesion: psi (kPa)* (15 min. dwell)	NTP-11	55 (379)
Dynamic Shear Adhesion: psi (kPa)* (15 min. dwell)	NTP-5	40 (276)
Static Shear Adhesion: Hours 1 psi load*	NTP-57	2000+
Tensile Strength: psi (kPa)	ASTM D412	180 (1241)
Elongation of Foam: %	ASTM D412	125%
Thermal Conductivity K factor: BTU·in./hr.·ft ² ·°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® V2100 Series – Standard Configurations

Black A2S	Gray A2S	Black A1S	Thickness in. (mm)	Length ft. (m)
V2104	V2104G272	TBX104	.125 (3.2)	50 (15.2)
V2106	V2106G272	TBX106	.1875 (4.8)	50 (15.2)
V2108	V2108G272	TBX108	.250 (6.4)	50 (15.2)
V2110	V2110G272	–	.3125 (7.9)	25 (7.6)
V2112	V2112G272	–	.375 (9.5)	25 (7.6)
V2116	–	–	.500 (12.7)	20 (6.1)

3 in. I.D. cardboard cores standard

Liners

Liner: Easy release branded blue polyethylene liner is standard on V2100 and V2100G272.

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.

Thermalbond® is a registered trademark of Saint-Gobain Performance Plastics.

Thermal Xpress™ is a trademark of Saint-Gobain Performance Plastics.



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