

ST-200 tape (structural tape)

tapes

Technical Data Sheet

ST-200 tape is a polyurethane tape, with two side adhesives, special for structural glazing. Resist wind loads on the glass. The silicone based structural glazing systems required compatible spacers to achieve a reliable performance of structural sealants. The structural tapes are the most used in these systems and are available in a wide variety of sizes, besides, while holding glass temporarily during silicone curing, they offer many other benefits including the compatibility with several silicones.

Technical Information

PROPERTIES	VALUE	TEST METHOD
Density, lb/ft ³ (kg/m ³)	22 (352)	ASTM D-1667
Compressing force 10%, psi (kPa)	16 (110)	ASTM D-1667
Hardness, Shore A	30	ASTM D-2240
Tensile strength, psi (kPa)	130 (896)	ASTM D-412
Elongation (%)	105	ASTM D-412
Dynamic traction adherence, psi (kPa) 15 minutes rest	45 (310)	NTP-11
Dynamic shearing adherence, psi (kPa) 15 minutes rest	30 (206)	NTP-5
Static shearing adherence (hours @RT) load 1 psi (7 kPa)	2000+	NTP-57
Thermal conductivity factor k BTU .in/hr. ft ² . °F (w/m °C)	.55 (0.08)	ASTM C-518
Acrylic enamel color transference 200 hours under UV at 140 °F (60 °C)	Without transference	ASTM D-925
Application temperature	16 °C to 52 °C (60 °F to 125 °F)	
Working temperature	-40 °C a 82 °C (-40 °F to 180 °F)	

Information obtained from laboratory tests.

Uses

ST-200 tape (structural tape) has been mainly developed for:

- Structural facades: in this case, the ST-200 tape provides a rigid support and separates uniformly the glass from the structure (normally of anodized or painted aluminum), and serves as a support to section the structural silicone. The tape support temporarily the glass while the sealant is curing, both elements work together and are part of our structural glazing system products.
- To secure glass in skylights that weight more than 20 kg.
- For glass floors regardless the weight of the glass.

Advantages

Compatibility

- The **ST-200 tape** is compatible with most of materials normally used in structural glazing, including two components products. (UltraGlaze* SSG4000, UltraGlaze* SSG4000 AC, UltraGlaze* SSG4400, UltraGlaze* SSG4600, Silpruf SCS 2000 y/o pens* construcción II).
- The **ST-200 tape** does not affect the color, physical properties or adhesion of silicones.

Bonding surfacesión

- The **ST-200 tape** has a strong adhesion, is pressure sensitive in both sides. This adhesion simplifies the installation by fastening the tape in the indicated position and in the workshop glazing's helps to support the glass to the substrate while the structural sealing is being installed and vulcanized.
- A protective polyethylene tape is adhered to one side of the tape to facilitate its handling and prevent contamination.

Vulcanized of Silicone Sealantsn

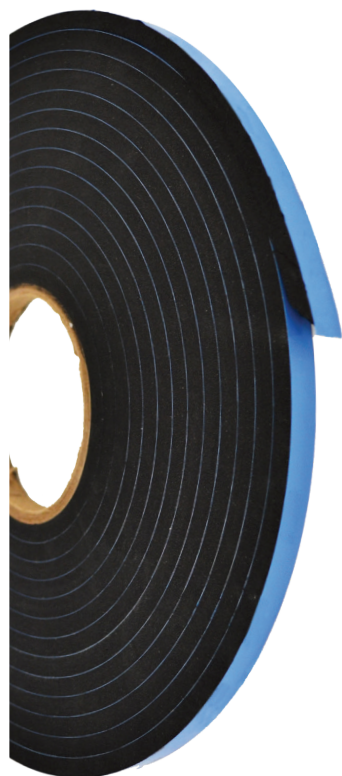
- The tape has a open cell structure. This allow the air and humidity make contact with the silicone, facilitating an optimal vulcanized.

Special Formulation

- The **ST-200 tape** is manufactured from a semi-rigid high density foam polymer.

Thermal Resistance

- The **ST-200 tape** has low thermal conductivity to reduce the heat loss through glass and the condensation in frame components.



Application

- The surfaces to be sealed shall be firm, dry, clean free of dust, grease, oil, water and old sealant. Porous surfaces shall be cleaned with brush or applying compressed air to remove all loose particles. In case of smooth surfaces (like glass, metal, etc.) it shall be done a cleaning with two cleaning clothes, consisting in passing a (lint free) cleaning clothe impregnated with isopropyl alcohol, and removing immediately all the impurities with a clean and dry cleaning clothe. With clean surface start placing the tape from the profile edge to the nose with a minimum of 6 mm (this cord shall be calculated for each project) without removing the protector liner applying a uniform pressure of 15 psi to get more adherence of the tape. Once placed the tape of all the aluminum frame will be lifted a section of the liner of each tape to make a bending so the tip is left outside, so they can be pulled back once the glass is placed. Then the glass is placed on the **ST-200 tape** with the liner placed in the position previously indicated, to move the glass and make alignment adjustments. Once aligned the glass, pull back the tips of the liners so the glass is totally seated in the tape, the glass is pressed for final adhesion. Then apply the structural seal, and weatherproof seal.

Recommendation

- Perform tests under actual application conditions to guarantee its operation.
- Perform correctly the cleaning of the substrates.
- Do not remove liner or touch the adhesive during the installation to prevent contamination.
- Do not stretch the tape during installation.

Maintenance

- No maintenance required.
- If the tape is damaged, it is recommended to replace it with a new one, eliminating the previous residues and following the application recommendations.

Precautions

- Keep out of the reach of children.
- Do not clean with products that can leave residues (like thinner, that may also affect the finishing of the products).
- Do not place the tape in dirty or unstable surfaces (steel or wood).

Limitations

- The **ST-200 tape** shall be used as spacer. Its adhesive properties are not to be used as part of permanent fastening system, or to reduce the quantity of structural sealant recommended by the silicone sealant manufacturer.

Presentation

Colors

- Black
- Gray*

Coverage

Code	Thickness	Width	Meters / Roll
ST-218*	1/8"	1/4" up to 2"	15.20
ST-214	1/4"	1/4" up to 2"	15.25

*Consult colors and minimum production.

Shelf Life

12 months in cool and dry warehouse.

Technical Support

Productos Pennsylvania's Technical Support is at your service, assisting you with:

Guidance in how to apply this or any of our products.

Blueprint reviews.

Joint dimension calculus.

Compatibility and adhesion testing of our sealants with different materials.

NOTE:

Productos Pennsylvania S.A de C.V. provides technical assistance when required. Please contact our Technical Department regarding use and application of this product. It is the user's responsibility to test the product and its uses before application.

Productos Pennsylvania, S.A. de C.V.

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the caulking expert

