

Products Datasheet



 **SANTALUZIA**[®]
PREMIUM SUSTAINABLE MOULDINGS



1. Product and Company Identification

Product: Polystyrene Profiles
Product Type: 96 % Recycled Polystyrene and 4% Virgin Polystyrene
Finishing: Finished in acrylic based solvent painting and hot stamping
Company: Indústria e Comércio de Molduras Santa Luzia Ltda
Address: Rodovia SC 438, Km 182, N° 3019. CEP:88750-000 - Braço do Norte -SC
Phone: +55 48 3651-1300
E-mail: support@santaluziamouldings.com
Site: www.santaluziamouldings.com

1.1. Thermal Expansion

Thermal expansion is a characteristic that occurs to all materials; in other words, all of them experience changes in dimensions due to temperature changes. This variation is different for each material; however, it is acknowledged. Therefore, we can calculate this variation for each temperature difference in function of the product length.

Santa Luzia recycled polystyrene profiles have a characteristic thermal expansion of 0.15%, for a temperature range of 45 °F.

1.2. Water Absorption

Santa Luzia products water absorption evaluation was performed by weight and dimensions variation of the products, after 24 hours of water immersion.

The products weight variation was $(0,91 \pm 0,11) \%$ (ASTM D 570 -98). This variation does not change product characteristics. Regarding dimensional variation, this not occurs in function of water absorption.

1.3. Flammability

Polystyrene products have the characteristic of propagating flame. The surface propagation medium flame index (PI) reached by the material was 432 corresponding to Class E of the test method (NBR 9442).

1.4. Exposure to coastal environments

Santa Luzia polystyrene profiles do not show any change when used in coastal environments, in other words, they are recommended for coastal environments.

1.5. Resistance to Cleaning Products

Recommended cleaning products are: neutral detergent, bleach (up to 50% diluted in water) and ethanol. For Hot Stamping Finished products, use only neutral detergent and water. The application should be made as such as not to allow the products to stay in direct touch for more than 10 minutes long.

Cleaning products should be applied with the aid of a cloth or soft sponge.

Note: The tests performed for the preparation of the profiles technical information were made using



finishing line profiles. If other types of paint are applied, the manufacturer recommendations need to be observed.

1.6. Resistance to Pests

Pests such as termites, borer and other insects do not feed of the products.

1.7. Application Environment

Santa Luzia products are not recommended for use where direct sunlight incidence occurs, because it can cause product changes.

This product can be installed in wet places, because it does not experience changes when exposed to moisture, as showed in item 2.2.

Application of Santa Luzia products is recommended for places where temperature ranges below 120°F, noting that any temperature variation succumb the products to a thermal expansion, as showed on item 2.1 of this document.

3. Finishing and Paints Application

Portfolio profiles are provided with final painting, which uses solvent acrylic ink or Hot Stamping.

If a color change is desired, in other words re-painting, follow the instructions/recommendations below:

- a) Use the same ink on the profiles, doors and windows, in order to reduce tonality variation.
 - b) Do not brush/polish/smooth the profiles or other procedure that removes the profile painting, because the re-painting quality can be compromised.
 - c) Products are ready to receive acrylic, solvent based or polyurethane inks. The performance of the same paint can vary from manufacturer to manufacturer and each ink has a specific performance. For more information, contact the manufacturer of the painting to be used.
- It is important to note that the re-painting performance will depend on the ink and application quality. The ink manufacturer’s specifications should be considered.
 - It is not recommended painting hot stamped finished profiles.

4. Presentation, Packaging and Storage

The products are presented in 8 feet long bars, wrapped in heat-shrink plastic and packed in cardboard boxes. Each pack contains product specifications and installation instructions. Storage can be done either vertically or horizontally, provided that it doesn’t warp the profiles wingspan.

Note: Profiles with special lengths can be produced according to our sales policy. Packaging type can also be negotiated on a case-by-case basis.

Technical Information Table – Polystyrene Profiles

Technical Attributes	Test Method	Results
Moisture Absorption (24h immersion)	ASTM D 570-98	(0,91 % ± 0,11)
Thermal Expansion (ΔT= 60°C)	ASTM E 831-14	62,58 [µm/(m°C)]
Flammability	NBR 9442	Classe E



Burn Rate*	ASTM D 635-14	13,8 mm/min
Impact Resistance IZOD	ASTM D 256-10	6,55 J/m
Flexural Strength	ASTM D 790-10	10 MPa
Proposition 65 California - USA	OEHHA	Aproved
Volatile Organic Compounds (96h)	CDPH/EHLB/Standard Method V1.1 (Sect. 01350)	-
	Office	Aproved
	Classroom	Aproved
Volatile Organic Compounds	ASTM 3960-05 (Adapted)	2,87 g/L
Density	Instituto Nacional de Tecnologia (INT)	500 kg/m ³
Bar Size	-	8 FT
Thickness	-	½" to 1 9/16"
Maximum Stacking	-	12 boxes

* Additived Product

5. The company is not responsible for product installation.

IMPORTANT NOTICE TO CONSUMERS

To ensure quality of Santa Luzia products, it is important to follow the recommendations made in the manuals, which can be found in the product packaging and on our website (www.santaluziamouldings.com).

To publicize best practices, Santa Luzia has free courses intended for independent professionals' which work with services. Santa Luzia do not have Installers which are employees, accredited or authorized in any way. For this reason, the company is not responsible for the provision of installation services, which is total responsibility of professional contractors.

Therefore, Santa Luzia does not authorize the use of its image, name or any form of use of its intangible property, in any medium, to offer provision of services by independent installers.

For any questions, please contact us by the phone in the email signature, or by e-mail (support@santaluziamouldings.com).

08/17 - 01





Santa Luzia USA
3500 NW 114th Ave, #212
Doral, FL - ZIP 33178 - USA

Phone: +1 (305) 438-7955

 [@santaluziamouldings](https://www.instagram.com/santaluziamouldings)

 [/santaluziamouldings](https://www.facebook.com/santaluziamouldings)

 [/santaluziamouldings](https://www.youtube.com/santaluziamouldings)



www.santaluziamouldings.com
customersupport@santaluziamouldings.com