

PLEXIGLAS® Solid Sheet and Tube

PLEXIGLAS® Satinice

Product

With its warm and soft appearance, the velvety surface of PLEXIGLAS® Satinice simply cries out to be touched. Due to its translucency, the material looks especially attractive in combination with light.

This surface makes the material insensitive to traces of wear and finger marks. PLEXIGLAS® Satinice is available with a satin surface on one side (SC) or on both sides (DC), and in a grade with diffuser beads that are evenly distributed throughout the material, not just at the surface (DF).

Properties

In addition to the well-known and time-tested properties of PLEXIGLAS®, such as

- excellent light transmission and brilliance
- very high weather resistance
- ease of fabrication
- low weight – about half the weight of glass
- 11 times the impact strength of glass
- 100% recyclability

PLEXIGLAS® Satinice offers the following special features:

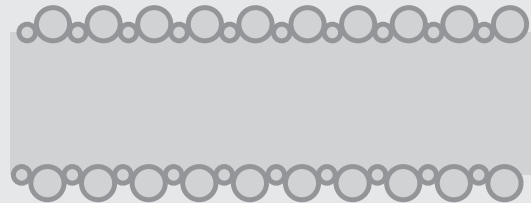
- white grades with varying degrees of light diffusion
- balanced ratio of light diffusion and transmittance
- insensitivity to traces of wear

Surfaces and other properties of the various products:



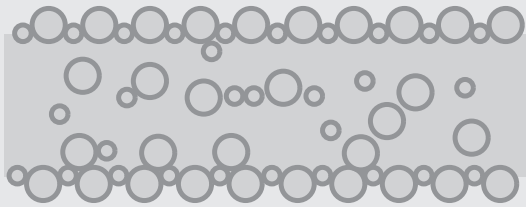
Cast sheet

- + light-diffusing
- + extremely easy to machine and fabricate
- + wide range of thicknesses and colors available from stock
- + insensitive surface



Extruded sheet

- + light-diffusing
- + low thickness tolerance
- + tough surface due to diffuser beads
- + texture is retained after thermoforming



Extruded sheet with optimum light diffusion

- + light-diffusing beads evenly distributed throughout the material
- + texture is retained after thermoforming
- + good balance between light diffusion and light transmission.



Tubes: frosted, optimum light diffusion, extruded

- + light-diffusing beads evenly distributed throughout the material

Applications

These properties make PLEXIGLAS® Satinice especially suitable for

- counters, shelves, tables, chairs, displays in furniture, exhibition booths and store fixtures
- wall paneling in architectural applications
- white-translucent grades as covers for lamps and skylights (especially OD010 DF)
- tubes as luminaires or lighting elements

Fabrication

PLEXIGLAS® Satinice can be fabricated just like standard PLEXIGLAS®. The following Guidelines for Workshop Practice are available for PLEXIGLAS®:

- Machining PLEXIGLAS® (No. 311-1)
- Forming PLEXIGLAS® (No. 311-2)
- Joining PLEXIGLAS® (No. 311-3)
- Fabricating Tips for PLEXIGLAS® Solid Sheets (No. 311-5)

Physical forms

PLEXIGLAS® Satinice is available in the following colors, sizes and thicknesses:

PLEXIGLAS® Satinice – colors

| | clear | white translucent | colors |
|---|----------------------|-------------------------------|-------------|
| Cast sheet | OF00 DC OF00 SC | WH02 DC WH02 SC WH10 DC | many colors |
| Extruded sheet | OM033 DC OM033 SC | WM513 DC WM513 SC | on request |
| optimum light diffusion, extruded | OD010 DF | on request | on request |
| optimum light diffusion, extruded tubes | OD010 DF | WD300 DF | on request |

DC = satin surface on both sides;

SC = satin surface on one side;

DF = satin surface on both sides / beads evenly distributed

PLEXIGLAS® Satinice – technical values

| | Transmission (T _{D65})* | Half-value angle* |
|-------------|-----------------------------------|-------------------|
| OF00 SC/DC | 92 % | |
| WH02 SC/DC | 44 % | |
| WH10 DC | 70 % | |
| OM033 SC/DC | 92 % | |
| WM513 SC/DC | 70 % | |
| OD010 DF | 83 % | |
| WD300 DF | 21 % | 56° |

* The light transmission and the half-value angle are given as a typical value for 3 mm thickness. It is measured according to test standard DIN 5036.

PLEXIGLAS® Satinice – sizes

| | Size | Thicknesses |
|-----------------------------------|---------------|-------------|
| Cast sheet | 3050x2030 mm | 3–20 mm |
| Extruded sheet | 3050x2050 mm | 3–10 mm |
| optimum light diffusion, extruded | 3050x2050 mm | 3–6 mm |
| extruded tubes | Ø 50–Ø 200 mm | 3 mm (wall) |

You can find the complete range of products in the PLEXIGLAS® Sales Range.

Röhm GmbH
Acrylic Products

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www.plexiglas.de
www.roehm.com

® = registered trademark

PLEXIGLAS is a registered trademark of Röhm GmbH, Darmstadt, Germany.
Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

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