

PLEXIGLAS®

Now available in decorated grades!

New!

Prestigious decorations for design applications.

PLEXIGLAS® sheets are now also available with embedded decor design.

The design is embedded between two PLEXIGLAS® sheets. The front surface consists of a thick glossy layer of PLEXIGLAS®, which gives the material an elegant depth effect.

The rear surface is coated with a thin layer of PLEXIGLAS®.

The product is UV-stable, weather-resistant and can even be thermoformed.

It is ideally suited for applications in store fixtures, displays, furniture, partitions, indoor and outdoor fixtures, panels and many more uses.



Display made of PLEXIGLAS® Fine Carbon

Glossy PLEXIGLAS® with depth effect and embedded decor design.

- Modern and elegant designs
- Suitable for indoor and outdoor applications
- Flexible and simple machining
- PLEXIGLAS® can be recycled



Brushed Aluminium



Fine Carbon



Floral Silver



Floral Night

Evonik. Power to create.



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Indications for Fabrication

Preliminary remark

PLEXIGLAS® acrylic sheets with embedded decor design have a surface coating on one side. You can identify the coated surface by the blue masking film.

Machining and polishing

Decorated PLEXIGLAS® can be machined according to the recommendations in our Guidelines for Workshop Practice (Ref. No. 311-1) just like standard PLEXIGLAS® XT. Correct alignment of the coated surface with the tool is vital for impeccable machining that is suited to the material. When sawing, drilling, routing, and during edge treatment, please make sure that the cutting tools enter the coated surface and exit the uncoated surface. For polishing, please position the material as in the above recommendation for machining.

Laser cutting

Decorated PLEXIGLAS® can be laser-cut with the usual settings for PLEXIGLAS® XT.

Bonding

The solvent and reaction adhesives normally used for bonding PLEXIGLAS® (see brochure 191-1) are also basically suitable for use with decorated PLEXIGLAS®. While the uncoated PLEXIGLAS® surface can be bonded without any problem, the partial dissolution caused by the adhesive on the coated side may lead to optical impairments. Bonding on the coated side should be performed as quickly as possible using a rapidly curing reaction adhesive formulation, which reduces the risk of optical impairment. Tests should be performed prior to bonding. For bonding fillet joints, the coated surface can either be carefully removed, or the bond can be performed as a miter joint angled at 45 to 46°.

Linear heating

Decorated PLEXIGLAS® sheets can be quickly and easily line-bent on all conventional line bending machines. The width of the heated area should be five times the material thickness.

Thermoforming

Decorated PLEXIGLAS® can be thermoformed to a moderate degree. Thermoforming stretches the pattern, depending on the degree of forming. We therefore advise you to perform prior tests. The recommended forming temperatures are between 150 and 160 °C.

Cleaning

Decorated PLEXIGLAS® should be cleaned with water to which some dishwashing liquid has been added and a soft, non-linting cloth.

Other indications

Do not store decorated PLEXIGLAS® near heat sources.

With the exception of the optical properties, the material properties are the same as those of PLEXIGLAS® XT 0A000 (Ref. No. 211-1 PLEXIGLAS® XT).

Sales Range

Decor design	Grade	Size (mm)	Thickness (mm)
Brushed Aluminium	9AD01 ME	3050 x 1400	6, 8, 10
Fine Carbon	9AD20 CB	3050 x 1395	8, 10
Floral Silver	9AD40 FL	3050 x 1395	8, 10
Floral Night	0AD50 FL	3050 x 1395	8, 10



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®= registered trademark

PLEXIGLAS is a registered trademark of Evonik Röhm GmbH, Darmstadt, Germany.

Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment).

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