PLEXIGLAS®

PLEXIGLAS®
Block

PLEXIGLAS® GS Blocks

Product

From a thickness of 30 mm onward, cast PLEXIGLAS® sheets are classed as blocks.

Properties

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

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

PLEXIGLAS® blocks offer the following special features:

- absolute transparency for an undistorted view
- resistance to several tonnes of water pressure
- resistance to several solvents and chemicals. Impact assessments can be performed for special applications.

Applications

These properties make PLEXIGLAS® GS block material particularly suitable for

- aquarium glazing such as cylinders, tunnels, flat and curved glazing supported on four and three sides. Larger sizes can be produced using butt joints;
- swimming pool glazing
- architecture featuring light and water
- glazing of pressure equipment such as submersibles, and hyperbaric chambers for medical use
- artwork and decoration
- model-building and prototypes
- furniture construction
- illuminated signs

Machining

PLEXIGLAS® block material can be machined just like standard PLEXIGLAS®. The following Guidelines for Workshop Practice are available for PLEXIGLAS®:

- Machining PLEXIGLAS® (Ref. No. 311-1)
- Forming PLEXIGLAS® (Ref. No. 311-2)
- Joining PLEXIGLAS® (Ref. No. 311-3)
- Surface Treatment of PLEXIGLAS® (Ref. No. 311-4)
- Fabricating Tips for PLEXIGLAS®
- Solid Sheet (Ref. No. 311-5)

Physical forms

PLEXIGLAS® block material is available in the following sizes and thicknesses:

Physical forms	
Standard size	3000 x 2000 mm
Special sizes	5000 x 2000 mm, 6000 x 2200 mm, 6000 x 3000 mm and 7800 x 3000 mm
Standard thicknesses	30 – 80 mm
Special thicknesses	bis 1000 mm

The material is available in transparent, translucent or opaque colors. Satin surfaces can be provided on one or both sides. The material can also be supplied with special product properties such as higher chemical resistance, or UV transmission.

You will find more details in the PLEXIGLAS® Sales Handbook "Typical properties".

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Technical data

For typical values, please consult the Technical Information sheet on PLEXIGLAS® GS/XT (211-1).

Certificates are available for special applications

- EU Pressure Equipment Directive 2014/68/EU
- Classification and Construction Regulations, Underwater Technology, (Det Norske Veritas Germanischer Lloyd)
- SAFETY STANDARD FOR PRESSURE VESSELS
- FOR HUMAN OCCUPANCY ASME PVHO-1-2016

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