



PLEXIGLAS®
Solid Sheet

PLEXIGLAS® Soundstop XT

Product

PLEXIGLAS® Soundstop XT is a highly transparent grade of extruded acrylic.

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® Soundstop XT offers the following special features:

- It prevents drivers feeling they are driving through a “tunnel.”
- PLEXIGLAS® Soundstop XT fulfills the requirements for airborne sound insulation of the highest class B3 according to EN 1793-2, EN 1793-6, EN 16272-3-2 and also all requirements of EN 1794-1,2,3.
- Large noise barrier elements reduce the need for steel supporting structures and enhance the transparency of the noise barrier.
- PLEXIGLAS® Soundstop XT is available in transparent colors.

Applications

These properties make PLEXIGLAS® Soundstop XT especially suitable for

- noise control along roads and railways
- wind barriers on bridges

Machining

PLEXIGLAS® Soundstop XT can be machined just like standard PLEXIGLAS®.

Physical forms

PLEXIGLAS® Soundstop XT is available in the following sizes and thicknesses:

Physical forms	
Length	up to 6000 mm
Width	up to 2000 mm
Thickness	12 – 15 – 20 – 25 mm

Other lengths and thicknesses are available on request.



Typical values			
Property	PLEXIGLAS® Soundstop XT	Value	Test standard
Density	1.19	g/cm ³	ISO 1183
Weight per unit area	17.8	kg/m ²	15 mm thick
Tensile strength	70	MPa	ISO 527-2/1B/5
Elongation at break	4	%	ISO 527-2/1B/5
Flexural strength	98	MPa	ISO 178
Modulus of elasticity	3300	MPa	ISO 527-2/1B/5
Weighted sound reduction index DL _R	30 at 15 mm	dB	EN 1793-2/ZTV-Lsw-06
Weighted sound reduction index DL _R	32 at 20 mm	dB	EN 1793-2/ZTV-Lsw-06
Weighted sound reduction index DL _R	33 at 25 mm	dB	EN 1793-2/ZTV-Lsw-06
Light transmission of clear-transparent elements	min. 92	%	DIN 5036
Coefficient of expansion 0 to 50°	70 · 10 ⁻⁶	1/K	DIN 53752-A
Max. permanent service temperature	70	°C	-
Vicat softening temperature	102	°C	ISO 306-B50
Poisson's ratio	0.37	-	-

POLYVANTIS GmbH

Riedbahnstraße 70
64331 Weiterstadt
Germany

www.plexiglas.de
www.polyvantis.com

® = registered trademark

Semi-finished polymethyl methacrylate (PMMA) products from POLYVANTIS are sold on the European, Asian, African and Australian continents under the registered trademark PLEXIGLAS®, in the Americas under the registered trademark ACRYLITE®, both owned by Röhm GmbH, Darmstadt, or its affiliates. Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments.

The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.