



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 is classed in the highest airborne sound reduction category (B3) of EN 1793-2, and also meets all requirements of EN 1794-1,2.
- 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	15 – 12 – 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	-	-

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® = registered trademark

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

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