

ACRYLITE® Soundstop NT

Product

ACRYLITE® Soundstop NT CC is a highly filled, non-transparent grade of cast acrylic.

Properties

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

- extremely high weather resistance
- ease of fabrication
- high surface hardness
- low weight
- 100% recyclability,

ACRYLITE® Soundstop NT offers the following special features:

- Large noise barrier elements reduce the need for steel supporting structures.
- ACRYLITE® Soundstop NT achieves the highest airborne sound reduction category (B3) of EN 1793-2, and also meets all requirements of EN 1794-1,2.
- ACRYLITE® Soundstop NT is available in various colors.
- ACRYLITE® Soundstop NT can be supplied with a matte or gloss surface.
- Since the sheets are homogeneously colored, there is no flaking.

Applications

These properties make ACRYLITE® Soundstop NT especially suitable for

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

Machining

- ACRYLITE® Soundstop NT can be machined just like standard ACRYLITE®.
- Lightweight applications for noise barriers

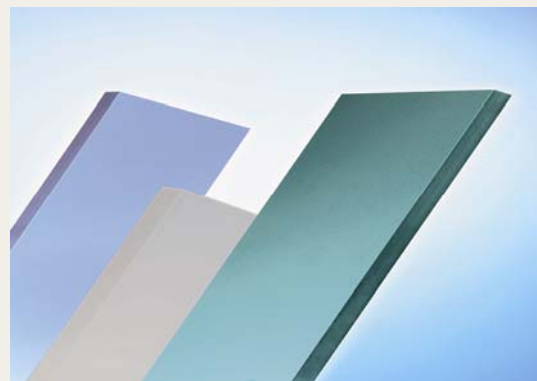
Physical forms

ACRYLITE® Soundstop NT is available in the following size:

Standard size: 4000 x 2000 mm

Thickness: 12 mm

Other surfaces, sizes and thicknesses are available on request.



Also available as NT CC with embedded polyamide threads

Typical Values – ACRYLITE® Soundstop NT

Property	Value	Test standard
Density	1.67 g/cm ³	ISO 1183
Weight per unit area	20 kg/m ²	12 mm thick
Tensile strength	37 MPa	ISO 527-2/1B/5
Elongation at break	2 %	ISO 527-2/1B/5
Flexural strength	62 MPa	ISO 178
Modulus of elasticity	7200 MPa	ISO 527-2/1B/5
Weighted sound reduction index DL _R 30 dB at 12 mm		EN 1793-2/ZTV-Lsw-06
Weighted sound reduction index DL _R 34 dB at 15 mm		EN 1793-2/ZTV-Lsw-06
Weighted sound reduction index DL _R 35 dB at 20 mm		EN 1793-2/ZTV-Lsw-06
Coefficient of expansion 0 to 50°	70x10 ⁻⁶ /K	DIN 53752-A
Max. permanent service temperature	70 °C	
Vicat softening temperature	105 °C	ISO 306-B50
Fragment retention	by means of embedded polyamide threads	

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