

ACRYLITE® Soundstop GS CC

Product

ACRYLITE® Soundstop GS CC is a highly transparent grade of cast acrylic with embedded polyamide threads. In the event of breakage due to an accident, these threads retain any sheet fragments and prevent them from falling down.

Properties

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

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

ACRYLITE® Soundstop GS CC offers the following special features:

- Superior safety! ACRYLITE® Soundstop GS CC panels meet the fragment prevention requirements of EN-1794-2.
- Embedded black filaments reduce the odds of bird collision.
- Superior sound reduction rating (STC) of 32 dB or higher by ASTM E 90.
- Lightweight applications for noise barriers
- Complies with European noise barrier regulations railways (including high speed rail) RIL 804.5501.
- ACRYLITE® Soundstop GS CC is available in transparent colors.

Applications

These properties make ACRYLITE® Soundstop GS CC especially suitable for

- noise control on highway and railway bridges.
- wind barriers on bridges

Machining

- ACRYLITE® Soundstop GS CC can be machined just like standard ACRYLITE®.

Physical forms

ACRYLITE® Soundstop GS CC is available in the following sizes and thicknesses:

Standard sizes:

2000 x 3000 mm, 2000 x 4000 mm,
2000 x 4200 mm, 2000 x 5000 mm

Special sizes:

2300 x 5000 mm, 2500 x 3300 mm

Thicknesses: 15 – 20 – 25 mm

Other sizes and thicknesses are available on request. Clear filaments optional.

Also available in a non-transparent panel, ACRYLITE® Soundstop NT CC.



Typical Values – ACRYLITE® Soundstop GS CC

Property	Test Standard	Value
Specific Gravity	ASTM D-792	1.19
Weight per unit area	15 mm thick	3.66 lbs / ft ²
Sound Transmission Coefficient	ASTM E-90	32 dB at 15mm
Sound Transmission Coefficient	ASTM E-90	34 dB at 20mm
Sound Transmission Coefficient	ASTM E-90	36 dB at 25mm
Refractive Index	ASTM D-542	1.49
Light Transmission, Total Weathered 5 years AZ	ASTM D-1003	92% 92%
Haze Weathered 5 years AZ	ASTM D-1003	1% 1.5%
Yellowness Index Weathered 5 years AZ	ASTM E 313	<1 1.5
Tensile Strength		10,000 psi (69 MPa)
Elongation at Break (%)		4.8
Modulus of Elasticity	ASTM D-638	400,000 psi (2,800 M Pa)
Flexural Strength		16,500 psi (114 MPa)
Modulus of Elasticity	ASTM D-790	475,000 psi (3,300 MPa)
Compressive Strength (Yield)	ASTM D-695	18,000 psi (124 MPa)
Resistance Against Stone Projectiles (15 mm thickness)	EN 1794-1	Pass
Impact-Windborne Debris in Hurricanes	ASTM E-1996/97	Pass

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