



PLEXIGLAS®
Solid Sheet

PLEXIGLAS® XT Antimicrobial

Product

PLEXIGLAS® XT Antimicrobial is an extruded sheet material made of acrylic glass. The double-sided surface finish offers excellent resistance to abrasion and chemicals and also has antimicrobial properties. The antimicrobial effect has been confirmed by an independent testing institute.

Due to the double-sided coating, the sheet is particularly suitable for use as a glass partition for public traffic, since it is very easy to clean and has mutual benefits. With it, confusing the active side during installation is impossible. It is also effective against a wide variety of bacteria and viruses.

A one-sided coating or a one-sided or two-sided coating of different colors or other material thicknesses are available upon request.

Properties

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

- excellent light transmission and brilliance
- easy processability
- high surface hardness
- low weight, half the weight of glass
- high impact resistance, 11 times that of glass

PLEXIGLAS® XT Antimicrobial has the following special features:

- excellent abrasion and chemical resistance
- antimicrobial surface finish

The coating on the sheets contains an antimicrobial formulation that prevents microbial growth. The sheets should be cleaned despite their antimicrobial

properties. You can find more information on this in the Cleaning chapter. Due to the antimicrobial surface application, a slightly yellowish edge tint is inherent to the product.

Applications

Because of these properties, PLEXIGLAS® XT Antimicrobial is particularly suitable for

- Trade fair construction and shop fitting
- Glazing such as protection wall
- Partitions
- Enclosures

Finishing

PLEXIGLAS® XT Antimicrobial can be processed like standard PLEXIGLAS®.

The following processing guidelines for PLEXIGLAS® are available:

- Machining of PLEXIGLAS® (No. 311-1)
- Joining of PLEXIGLAS® (No. 311-3)
- Surface treatment of PLEXIGLAS® (No. 311-4)
- Tips for processing of PLEXIGLAS® solid sheets (No. 311-5)

The following specific features must be noted for processing of PLEXIGLAS® XT Antimicrobial:

Edge treatment

Scraping, wet grinding and polishing are also ideal for PLEXIGLAS® XT Antimicrobial. Flame polishing is not recommended due to the flashing flame. In this case, the flame may cause ruptures and cracks in the surface so that the characteristic properties on abrasion resistance, chemical resistance and antimicrobial effect may be lost in the affected area.

Bonding

The surface must be prepared before bonding. First of all, the coating must be wet-sanded or milled away for bonding. When removing the coating, make sure that the adhesive surface is flat, clean and free of tension.

Forming

Linear bending or thermoforming are not suitable for processing of PLEXIGLAS® XT Antimicrobial. These procedures may damage or peel the coating.

Cleaning

Liquid cleaning agents and lukewarm water together with a soft sponge or cloth are ideal for cleaning the chemical-resistant sheet. Mechanical cleaning methods using razor blades, knives, scrapers or very hard scouring pads must be avoided. This may cause scratches and damage the coating.

Weathering

The material is particularly intended for use in interiors.

Delivery forms

PLEXIGLAS® XT Antimicrobial is available in the following formats and thicknesses:

Format: 3050 x 2050 mm

Thickness: 3 mm, 5 mm and 8 mm

Further details can be found in the PLEXIGLAS® product portfolio. For information on disposal of the material, please refer to the safety data sheet.

Technical data				
Physical properties (colorless, 3 mm thick)	PLEXIGLAS® XT Antimicrobial	Uncoated acrylic sheet	Unit of measurement	Test specification
Mechanical properties				
Tensile strength	65.5	72	MPa	DIN EN ISO 527
Modulus of elasticity	3450	3300	MPa	DIN EN ISO 527
Charpy Impact Strength	8	15	kJ/m ²	DIN EN ISO 527
Optical properties				
Light transmission	92	92	%	DIN 5036
Yellowing	< 1	< 0.5	%	DIN 5036
Thermal properties				
Vicat softening temperature	106	103	°C	ISO 306, Method B50
Building material class	B2	B2	-	DIN 4102
	E	E	-	DIN EN 13501
Abrasion resistance of the coating				
Abrasion resistance according to the friction wheel method (100 cycles, 4.9 N, CS-10F)	< 7	20 - 30	% Haze	ISO 9352
Pencil hardness	5H	2H	-	DIN EN 13523-4
Adhesiveness	GT 0	-	-	DIN EN ISO 2409

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



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POLYVANTIS GmbH

Riedbahnstraße 70
64331 Weiterstadt
Germany

www.plexiglas.de
www.polyvantis.com

® = registered trademark

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