

POLYCASA® XT SBW

Polymethyl Methacrylate Acrylic
Polycasa

Message:

XT Sound Barrier Wall Flysafe® is the latest addition to our range of Sound Barrier Walls, reducing the chance of 'birdstrike' - where birds fly into clear sheets, glass and other transparent architectural elements.

As they do not see these as obstacles to be avoided, the solution is to create a contrast effect on the transparent barrier which is visible to birds, who perceive gaps of approximately 10 cm (about the size of your hand) as too small to fly through.

The design is a sophisticated and unsymmetrical pattern that can be used in all directions. Whereas the markings appear as a barrier to birds, the foil still allows good transparency for the human eye.

CHARACTERISTICS

Excellent noise reduction, good optical properties, very high transparency, superior UV light resistance and outstanding weather resistance.

Easy to process.

Due to the pattern printed onto the inside of the laminated film of Flysafe, it can neither be scratched, damaged, nor removed by graffiti-cleaner.

Soft Tone has a matt soft surface, avoiding light reflective effects or increase light scattering.

The noise barrier elements comply with the product standard EN ISO 7823-2 as well as construction regulations including EN 1793 and EN 1794.

POLYCASA XT SBW FLYSAFE is highly effective and is classified as "Bird Protection Glass" according to ONR 191040 at Biological Station Hohenau -Ringelsdorf.

APPLICATIONS

Sound barrier wall devices.

Large scale glazing.

Front covers.

Conservatories.

Roofing.

General Information	
Features	Good Processability
	Good UV Resistance
	Good Weather Resistance
	High Scratch Resistance
	Noise Damping
	Opticals
	Sound Damping
Uses	Building Materials
	Construction Applications
	Glazing
	Wall Panels
Agency Ratings	EN 1793
	EN 1794
	EN 7823
Appearance	Clear/Transparent
	Colors Available

Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2
Tensile Stress	70.0	MPa	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature ¹	105	°C	ISO 306/B50
CLTE - Flow	7.0E-5	cm/cm/°C	DIN 53752
Specific Heat	1470	J/kg/°C	ISO 11357
Thermal Conductivity	0.19	W/m/K	DIN 52612
Maximum Service Temperature			
continuous use	70	°C	
short term use	90	°C	
Sheet Temperature - Forming	140 to 190	°C	
Optical	Nominal Value	Unit	Test Method
Transmittance ²	> 90.0	%	ISO 13468-1
NOTE			
1.	Pre-treatment 16h at 80°C		
2.	15-20 mm clear		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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