

ACRYLITE® Sheet Soundstop BirdGuard

Acrylic
Evonik Cyro LLC

Message:

ACRYLITE® Soundstop BirdGuard is a highly transparent specialty grade of acrylic that helps to prevent bird collisions.

Properties

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

Applications

These properties make ACRYLITE® Soundstop BirdGuard especially suitable for

noise control along roads and railways

wind barriers on bridges

impact resistant glazing for pedestrian bridges/greenways

General Information			
Features	Noise reduction		
	Impact resistance, high		
	Recyclable materials		
	Machinable		
	Good weather resistance		
	Definition, high		
	High hardness		
Uses	Assembled glass		
Appearance	Available colors		
	Clear/transparent		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2760	MPa	ASTM D638
Tensile Strength	68.9	MPa	ASTM D638
Tensile Elongation (Break)	4.5	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength	117	MPa	ASTM D790
Compressive Strength	117	MPa	ASTM D695
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542

Transmittance			ASTM D1003
-- ¹	92.0	%	ASTM D1003
--	92.0	%	ASTM D1003
Haze			ASTM D1003
-- ²	1.5	%	ASTM D1003
--	1.0	%	ASTM D1003
Yellowness Index			ASTM E313
-- ³	1.5	YI	ASTM E313
--	< 1.0	YI	ASTM E313
Additional Information	Nominal Value	Unit	Test Method
Sound Transmission Coefficient			ASTM E90
1.50 cm	32.0	dB	ASTM E90
2.00 cm	34.0	dB	ASTM E90
2.50 cm	36.0	dB	ASTM E90
Weight per Unit Area (1.50 cm)	3.66	lb/ft ²	
Resistance Against Stone Projectiles (15 mm thickness) : Pass (EN 1794-1)Impact-Windborne Debris in Hurricanes : Pass (ASTM E-199)			
NOTE			
1.	Weathered 5 years AZ		
2.	Weathered 5 years AZ		
3.	Weathered 5 years AZ		

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