



## AIRCRAFT GLAZING



The windows to the sky



MACHINE SAFETY GLAZING  
LASER  
SPECIAL GLAZING  
AIRCRAFT GLAZING  
PLASTICS PROCESSING  
CALCULATIONS  
DESIGN + DEVELOPMENT



# AVIATION PROVEN



# HIGHLY RESISTANT



# VARIABLE

## Sound-insulating panes – the BSA innovation for optimum visibility

Acoustic insulation panes manufactured by BSA comply with the latest technological findings. They fulfil the strict requirements of the aviation industry in terms of optical quality, scratch and abrasion resistance, coating adhesion, dimensional accuracy and tolerances.

Thicknesses: Standard 1.5 / 2.0 / 2.5 mm. Other designs, thicknesses and transparent colours possible.

### Technical data

- Sound insulation panes can be made of acrylic glass (PMMA) or polycarbonate (PC). Optionally, the surface can be equipped with a scratch and abrasion-resistant coating
- The adhesion of the coating corresponds to cross-cut GT 0 - 1 in accordance with DIN 53 151
- Steel wool abrasion test passed
- Chemical resistance: Resistance list on request
- Cleaning: Commercially available approved acrylic glass cleaners, list on request
- Flammability according to FAR Part § 25.853, Appendix F, amdt. 32
- Smoke density and toxicity according to ABD 0031 / (ATS 1000.001)

Substrate	Acrylic glass (uncoated)	Acrylic glass (coated)	Unit	Standard
Panel thickness	2.0	2.0	mm	—
Coating	—	4 - 8	µm	—
Density	1.19	1.19	g/cm <sup>3</sup>	ISO 1183
Modulus of elasticity	3.200	3.200	MPa	ISO 527 -2 1 B/1
Tensile strength	77	35	MPa	ISO 527 -2 1 B/5
Elongation at break	5,5	1,2 <sup>3)</sup>	%	ISO 527 -2 1 B/5
Downforce resistance (Taber test) <sup>1)</sup>	20 - 40	0,7 - 1,4	% Increase in turbidity	DIN 52 347
Sand trickle test <sup>2)</sup>	23	4,0	(cd/m <sup>2</sup> )/L <sub>x</sub>	DIN 52 347
Light transmission	92	93	%	DIN 5033/36
Expansion coefficient (0-50°C)	70 10 <sup>-6</sup>	70 10 <sup>-6</sup>	1/K	VDE034/1 DIN 53752

1) 100 revolutions, 5.4 N friction pressure, CS-10F friction wheels 2) 3 kg quartz sand 3) for coating only

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