

## SM'art MIRROR ST, SM'art ICE ST, technical data sheet

Standard PMMA bonded with polyurethane glue on MDF 14/18 mm and balanced with PS compact polystyrene.

Mirror – item code AM02 – final thickness: 18/22 mm.

Mirror – item codes AM04, AM05, AM06, AM07 – final thickness: 20/24 mm

ICE – all item codes – final thickness: 18/22 mm

Suitable for wood working machinery, lighter than galss and hugely less brittle.

Reflectance may vary depending on the distance and angle of the reflected object relative to the panel, as well as on the conditions of use and installation methods.

property	test method	unit of measure	SM'art MIRROR ST SM'art ICE ST		
density	EN 323	Kg/m <sup>3</sup> tolerance	983 +/- 7%		
scratch resistance	EN 14323	N	≥ 0,5		
micro scratch resistance	EN 16611	grade	2/3		
Charpy impact resistance	ISO 179-1/1eU	kJ/m <sup>2</sup>	10		
hardness to sphere indentation	ISO 2039-1	MPa	235		
Light transmission	ISO 13468-2	%	92		
Taber D haze (500 cycles)	ASTM D 1003	% Haze	< 3		
mirror varnish adhesion to PMMA	ISO 2409		GT 0		
swelling after 24 hours	EN 317	%	12		
MDF taering resistance	EN 319	N/mm <sup>2</sup> minimum	0,35		
flexion resistance	EN 310	N/mm <sup>2</sup> minimum	20		
elasticity module	EN 310	N/mm <sup>2</sup> minimum	2200		
Vicat temperature of softening (B 50)	EN ISO 306	°C	105		
service temperature for continuous use	-	°C	70		
maximum temperature for short period use	-	°C	90		
surface defects	EN 14323	mm <sup>2</sup> /m <sup>2</sup> mm/m	≤ 2 ≤ 20		
thickness tolerance	EN 14323	mm	+/- 1,0		
size tolerance	EN 14323	mm	+/- 5		
flatness		mm/m	≤ 6		
damaged edges	EN 14323	mm	≤ 10		
hortogonality	EN 14323	mm/m	≤ 5		
formaldehyde emission	EN717-1	mg/m <sup>3</sup>	E05	required < 0,062	actual 0,007
	EN717-1	ppm	E05	< 0,050	0,006
	ASTM E1333-96	ppm	Carb 2	< 0,090	0,006