

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.

property	test method	unit of measure	SM'art MIRROR ST SM'art ICE ST		
density	EN 323	Kg/m3 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 ²	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/mm2 minimum	0.35		
flexion resistance	EN 310	N/mm2 minimum	20		
elasticity module	EN 310	N/mm2 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	mm2/m2 mm/m	≤ 2 ≤ 20		
thickness tolerance	EN 14323	mm	+/- 1,0		
size tolerance	EN 14323	mm	+/- 5		
flatness		mm/m	≤ 5		
damaged edges	EN 14323	mm	≤ 10		
horthogonality	EN 14323	mm/m	≤ 5		
formaldehyde emission				required	actual
	EN717-1	mg/m3	E05	< 0,062	0.007
	EN717-1	ppm	E05	< 0,050	0.006
	ASTM E1333-96	ppm	Carb 2	< 0,090	0.006