handycat
SENSORY HEALTHCARE

IBOND TECHNICAL DATA FOR MIRROR COMPOSITE

Panel Thickness	Standard	Unit	3mm
Thickness of Aluminium	DIN 1784	mm	0.3
Aluminum thickness deviation	DIN 1784	mm	±0.01
Weight		Kg/m^2	4.6
Tolerance in length	DIN 16927 / ISO 11833-1	mm	- 0 / +2
Tolerance in width	DIN 16927 / ISO 11833-1	mm	- 0 / +1.5
Tolerance in thickness	DIN 16927 / ISO 11833-1	mm	± 0.10
Horizontal flatness	DIN ISO 1101	mm	4
Longitudinal roughness	DIN ISO 1101	mm	6
TechnicalProperties			
Section Modulus W	DIN 53293	cm^3/m	1.75
Rigidity (Poisson's ratio μ = 0.3) E.I	DIN 53293	kNm^2/m	0.28
Alloy	EN 573-3	ENAW	1100
Temper of Cover Sheets	EN 515		H16/H18
Modulus of Elasticity	EN 1999 1-1	N/mm^2	70,000
Tensile Strength of Aluminium	EN 485-2	N/mm^2	$R_m \geq 145$
0.2% Proof Stress	EN 485-2	N/mm^2	$R_{p0.2} \geq 90$
Elongation	EN 485-2	%	$A_{50} \geq 3$
Linear Thermal Expansion	EN 1999 1-1	mm/m/°C	0.020 at 100°C Temp difference
Core			
Polyethylene, Typ LD-PE		g/cm^3	0.935
Surface			Anodize
Color			Mirror
ColorCode			BBL8001
Lacquering			Anodize Mirror/Interior
Thickness of mirror finish		mm	0.3mm
Warranty			interior 10 Years
AcousticalProperties			
Sound Absorption Factor $\acute{\alpha}_s$	ISO 354		0.05
Sound Transmission Loss R_W	ISO 717-1	DB	26
Loss Factor d	EN ISO 6721		0.0087
ThermalProperties			
Thermal Resistance R	DIN 52612	m^2K/W	0.0103
Heat Transition Coefficient U	DIN 4108	W/m^2K	5.54
Temperature Range		°C	-50...+80