

## MYBOND PREMIUM 2MM / 0.2 MM

ITEM	STANDARD	UNIT	
Thickness of ACM		mm	2
Thickness of Aluminum TOP		mm	0,2
Thickness of Aluminum BOTTOM		mm	0,2
Aluminum Thickness Deviation		mm	±0.01
Weight		kg/m <sup>2</sup>	3
Tolerance of Length	DIN 16927 / ISO 11833-1	mm	- 1 / +3
Tolerance of Width	DIN 16927 / ISO 11833-1	mm	- 1 / +1.5
Tolerance of Thickness	DIN 16927 / ISO 11833-1	mm	± 0.15
Tolerance of Diagonal	DIN ISO 1101	mm	±5
Horizontal Flatness	DIN ISO 1101	mm	≤4
Longitudinal Roughness	DIN ISO 1101	mm	≤5
<b>TECHNICAL PROPERTIES</b>			
Section Modulus W	DIN 53293	cm <sup>3</sup> /m	1,25
Rigidity (Poisson's ratio $\mu=0.3$ ) E.I.	DIN 53293	kNm <sup>2</sup> /m	0,14
Alloy	EN 573-3	ENAW	1100
Temper of Cover Sheets	EN 515		H16/H18
Modulus of Elasticity	EN 1999 1-1	N/mm <sup>2</sup>	70.000
Tensile Strength of Aluminum	EN 485-2	N/mm <sup>2</sup>	Rm ≥ 145
0.2% Proof Stress	EN 485-2	N/mm <sup>2</sup>	Rp0.2 ≥ 90
Elongation	EN 485-2	%	A50 ≥ 3
Liner Thermal Expansion	EN 1999 1-1	mm/m/°C	0.002 at 100oC Temp difference

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ITEM	STANDARD	UNIT	
<b>CORE</b>			
<b>Core Composition</b>			
Polyethylene Recycle		g/cm <sup>3</sup>	0,935
<b>SURFACE PROPERTIES</b>			
<b>Lacquering</b>			
			PE
Thickness of Coating		μm	two coating: ≥26 three coating: ≥32
<b>Color Difference</b>			
Glossness	ECCA T2	%	30 - 95
Pencil Hardness	ECCA T4		H
<b>Impact Strength</b>			
		kg cm <sup>2</sup>	
Boiling Water Resistance	Boiling for 2h without change		Unchanged
Acid Resistance	Immerse surface with 5% HCL (v/v) for 48h without change		Unchanged
Alkali Resistance	Immerse surface with 5% NaOH (m/m) for 48h without change		Unchanged
<b>Oil Resistance</b>			
Solvent Resistance	Clean 100 times with butanone without change		Bottom unrevealed
Cleaning Resistance	≥ 1000 times without change		Unchanged
Peel Strength 180°	≥ 3.0N/mm	newton/mm	≥ 3.0
<b>ACOUSTICAL PROPERTIES</b>			
Sound Absorption Factor s	ISO 354		0,05

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ITEM	STANDARD	UNIT	
Sound Transmission Loss $R_w$	ISO 717-1	DB	25
Loss Factor $d$	EN ISO 6721		0,0072
<b>THERMAL PROPERTIES</b>			
Thermal Resistance $R$	DIN 52612	$m^2K/W$	0,0069
Heat Transition Coefficient $U$	DIN 4108	$W/m^2K$	5,65
Temperature Range		$^{\circ}C$	-50...+80

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