

# BROSZEIT SUPERMATT HPL



[broszeit-group.com](http://broszeit-group.com)



**BROSZEIT**

## BROSZEIT SUPERMATT HPL PROVIDES A UNIQUE MATT SURFACE WITH IMPRESSIVE CHARACTERISTICS

Broszeit SUPERMATT HPL is the perfect work surface for the kitchen, office and bathroom. Thanks to its high scratch resistance and micro-scratch resistance, no amount of wear and tear can harm it. It always looks like new. And its ultra-matt surface turns every piece of furniture into a stylish design object.

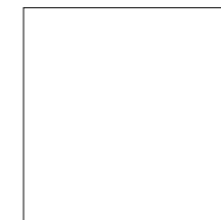


### THE MOST IMPORTANT FACTS

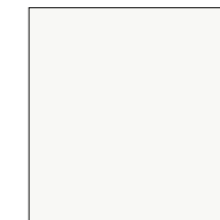
Decors:	8 unicolour decors
Size:	3050 x 1300 mm (stock) 4200 x 1300 mm other sizes available on request
Thickness:	0,9 - 12 mm, other thicknesses available on request
Intermediate ply:	HPL super matt, scratch-resistance complies with furniture norm EN 438/2-25, 6N, DIN 68861/T4 - 0,6 N
Protection:	PE protection foil
Processing:	We offer the following further processing possibilities: Composite elements, cuts, finished parts (drilled, milled, edged)



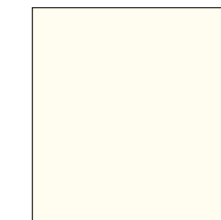
### STANDARD COLOURS AND DECORS



**Z11 SUPERWEISS ZERO**  
RAL 9003



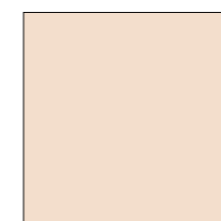
**Z12 CREMEWEISS ZERO**  
RAL 9016



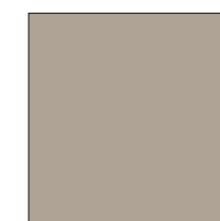
**Z13 MAGNOLIE ZERO**  
RAL 9010



**Z24 BEIGE ZERO**  
RAL 1015



**Z25 SAND ZERO**  
RAL 9001



**Z26 BRAUNGRAU ZERO**  
RAL 7032



**Z27 DUNKELGRAU ZERO**  
RAL 7037



**Z38 SCHWARZ ZERO**  
RAL 9011

The RAL colour information is only a guideline.  
We therefore recommend sampling before placing the order.



## THE MANY PRACTICAL PROPERTIES OF SUPERMATT HPL AT A GLANCE



## OUR PRODUCT VARIETIES



Anti fingerprint



Warm- & Soft-Touch



Antibacterial



High colour intensity



Easy to clean



Dry heat resistant



Ultra matt surface



Chemical resistant



Thermal healing repair



Water repellent



Food safe



Low light reflectance



Heat and cold tolerant



Antistatic



Shock resistant



Micro scratch resistant



Scratch and abrasion resistant



Non-fading



Can be written on with chalk



Flame resistant according to EN 13501-1 upon request



**HPL**

**SIZE:**  
3050 x 1300 mm,  
(4200 x 1300 mm on request)

**BACK SIDE:**  
sanded



**HPL COMACT**

**SIZE:**  
3050 x 1300 mm,  
(4200 x 1300 mm on request)

**DECORE:**  
similar on both sides



**COMPOSITE ELEMENT MDF**

**CORE:**  
MDF 18 mm

**SURFACE:**  
both side HPL 0,9 mm or  
one side 0,9 mm /one side  
0,8 mm

**SIZE:**  
3050 x 1300 mm uncutted  
edges

**GLUE:**  
PVAC white glue D3  
(D4 on request)



**MDF DIRECTLY COATED**

**CORE:**  
MDF 18 mm

**SURFACE:**  
both side 0,2 mm coated

**SIZE:**  
3050 x 1220 mm

**GLUE:**  
PVAC white glue D3  
(D4 on request)



## BROSZEIT SUPERMATT HPL – TECHNICAL SPECIFICATIONS

QUALITIES	TEST METHOD	TEST VALUE	REQUIRED VALUE			
Thickness	EN 438-2 :5 HGs (1). CGS (2)	adequate to the required thicknesses	0.9 ≤ t < 2.0 mm: ±0.10 mm			
			2.0 ≤ t < 3.0 mm: ±0.20 mm			
			3.0 ≤ t < 5.0 mm: ±0.30 mm			
			5.0 ≤ t < 8.0 mm: ±0.40 mm			
			8.0 ≤ t < 12.0 mm: ±0.50 mm			
			12.0 ≤ t < 20.0 mm: ±0.50 mm			
			16.0 ≤ t < 20.0 mm: ±0.70 mm			
			20.0 ≤ t < 25.0 mm: ±0.80 mm			
			25.0 ≤ t: according to the agreement between the manufacturer and the customer			
Weight	EN 438-2: 5 HGS, CGS	1.4	Min. 1.35 gr / cm <sup>3</sup>			
Gloss level at 60°C	ISO 2813	1.5	-			
Abrasion resistance	EN 438-2: 10 HGS, CGS	A initial point = 433 Rev. Wear value = 725 Rev.	Initial point ≥ 150 Rev.			
			Wear value ≥ 350 Rev.			
Scratch resistance	EN 438-2: 25 HGS, CGS	6N	Flat surfaces Min. 2 N			
Micro scratch resistance (7)	EN 16094-2012 Procedure B on dark patterns Procedure B on light patterns	MSR-B3 MSR-B1	-			
			-			
			-			
Thermal healing repair	In-house testing (3)	Rating 5 (4)	-			
Impact resistance	EN 438-2 small ball 20 HGS big ball 21 CGS	25 N	Min. 20 N			
			2.0 ≥ t < 0.6 mm	No crack 4.5 mm 1400mm height, no crack, 10mm max.		
			t ≥ 6.0 mm	No crack, 3.5 mm 1800mm height, no crack, 10mm max.		
			Resistance to crazing (20 h at 80°C)	EN 438-2: 24 CGS	Level 4	Min. level 4
			Dry heat resistance at 180°C	EN 438-2: 16 HGS CGS Other surface finish	Level 5	Min. level 4
EN 438-2: 14 HGS, CGS Other surface finish	Level 5	Min. level 4				
EN 438-2: 12 HGS CGS Other surface finish	Level 5	Min. level 4				
Boiling water resistance	EN 438-2: 12 HGS CGS Other surface finish	Level 5	Min. level 4			
			CGS	1.1%	Max. 5% weight incr.	
			Other surface finish	0.3%	Max. 2% thickness incr.	
			Appearance	Level 4	Min. level 4	
Cigarette burn resistance	EN 438-2: 30 HGS, CGS	Level 4	Min. level 3			
Chemical resistance	SEFA 8-1999	See the table below.	-			
Resistance to discoloration	EN 438-2: 26 HGS, CGS	Level 5	Min. level 5			
			Group 1+2	Level 5	Min. level 4	
			Group 3	Level 5	Min. level 4	
Fingerprint resistance	In-house testing (5)	Rating 5 (6)	-			
Evenness	EN 438-2: 9 CGS	1.23 mm	max. 8 mm / per meter length			
			6.0 ≥ t < 10.0 mm	1.46 mm	max. 5 mm / per meter length	
			t ≥ 10.0 mm	1.87 mm	max. 3 mm / per meter length	
			Resistance to fading	EN 438-2: 27 HGS, CGS	Level 5	Min. level 4
Reaction to fire (8)	EN 13501-1 10 mm	B s1 d0	B s2 d0			
			2.0 ≥ t < 5.0 mm	Length: 0.22 mm Length: max. 0.4 mm		
Dimensional stability at elevated temperature (7 °C)	t ≥ 5.0 mm	Length: 0.18 mm	Length: max. 0.3 mm			
			Width: 0.23 mm	Width: max. 0.6 mm		
			Width: 0.23 mm	Width: max. 0.6 mm		

## BROSZEIT SUPERMATT HPL – TECHNICAL SPECIFICATIONS

QUALITIES	TEST METHOD	TEST VALUE	REQUIRED VALUE	
Tensile strength	EN ISO 527-2 CGS	85 Mpa	Min. 60 Mpa	
			EN ISO 178 CGS	114 Mpa
Bending stress	EN ISO 178 CGS	114 Mpa	Min. 80 Mpa	
Elastic modulus	EN ISO 178 CGS	16.522 Mpa	Min. 9000 Mpa	
			ASTM D696-08 CGS	6 mm
Linear coefficient of thermal expansion	ASTM D696-08 CGS	6 mm	-	
			ASTM C 518 CGS	6 mm
Thermal conductivity	ASTM C 518 CGS	6 mm	0.416 w/mK	-
Electrostatic behaviour	EN 61340-4-1 HGS, CGS	Rs > 1 × 10 Ω	-	
			ASTM D5116 6 mm	< 0.010 mg / m <sup>2</sup> / hr
Surface resistance (RS)	Rs > 1 × 10 Ω	-	-	
Volatile organic compound emission	ASTM D5116 6 mm	6 mm	< 0.010 mg / m <sup>2</sup> / hr	< 0.5 mg / m <sup>2</sup> / hr
			PCP-release (Penta Chlor Phenol)	PV_C_01.01.02_02-08 (2014-01)

### COMMENTS:

- (1) HGS Horizontal Grade Standards Laminate  
 (2) CGS Compact Grade Standard Laminate  
 (3) In-house testing Results available on request.  
 (4) Rating 5 No visible changes.  
 (5) In-house testing No surface changes.

- (6) Rating 5 Surface unchanged.  
 (7) Micro scratch Procedure:  
 thermal healing 1. Heat iron to 180 – 220 °C.  
 2. Lay a piece of damp kitchen towel on the scratched surface.  
 3. Place the iron on the towel with a slight pressure for 20 seconds max.  
 4. Remove the iron and the wet towel and wipe the surface with a dry towel.  
 5. Wait for 2 minutes to examine the surface.  
 (8) Fire resistance Available on request.

## BROSZEIT SUPERMATT HPL – CHEMICAL RESISTANCE CHART

NR.	CHEMICALIE	METHODE	ERGBNIS
1	Hydrochloric Acid 10%	B	0
2	Hydrochloric Acid 37%	B	0
3	Sulphuric Acid 33%	B	0
4	Sulphuric Acid 98%	B	1
5	Nitric Acid 30 %	B	0
6	Nitric Acid 65%	B	0
7	Phosphoric Acid 65%	B	1
8	Acetic Acid 65%	B	1
9	Hydrofluoric Acid 40%	B	0
10	Chromic Acid 10%	B	0
11	Ammonium Hydroxide 28%	B	1
12	Sodium Hydroxide 46%	B	0
13	Silver Nitrate 1%	B	1
14	Potassium Permanganate 10%	B	2
15	Ferric (III) Chloride 10%	B	0
16	Copper Sulphate 10%	B	0
17	Sodium Hydrochloride 16%	B	1
18	Sodium Chloride 10%	B	0
19	Formaldehyde 10%	A	0
20	Furfural	A	0
21	Formic Acid 90%	B	1
22	Phenol 90%	A	0
23	Acetone	A	2
24	Mono Ethylene Glycol	A	0
25	Ethyl alcohol	A	0
26	Ethylene Glycol Mono Butyl Ether	A	0
27	Methyl Ethyl Ketone	A	2
28	Dichloromethane	A	1
29	Ethylacetone	A	2
30	n - Butyl Acetate	A	2
31	n - Hexane	A	2
32	Methyl Alcohol	A	1
33	Methyl Isobutyl Ketone	A	2
34	Tert Hydro Furane	A	2
35	Toluene	A	1
36	Tri Chloro Ethylene	A	2
37	Xylene	A	1
38	Iodine Tincture	B	2
39	Hydrogen Peroxide 3%	A	1
40	Melachite Green Oxalate 1%	B	1
41	Methylene Blue 1%	B	1
42	Methyl Violet 2B 1%	B	2
43	Wright Stain 1%	B	2
44	Chlorine 5 PPM	B	0



**YOU WANT TO START A NEW  
PROJECT? THE BROSZEIT  
TEAM IS LOOKING FORWARD  
TO YOUR CALL.**

**CONSULTING**

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