

POLYPREY® HPL Bonded Board



1/ High Pressure Laminate bonded on both sides.
2/ Chipboard or MDF core.



Properties

- Ready-to-use decorative panel.
- Same surface performance as Polyrey HPL.
- Silver ion-treated, antibacterial Sanitized® grade.
- High quality industrial adhesive, resistant to moisture (D3).
- Decorative on both sides.
- Food safe (IANESCO approved).



crack resistant



impact resistant



abrasion resistant



moisture resistant



colour fastness under artificial light



scratch resistant



heat resistant



ease of maintenance



resistant to cigarette burns



resistant to chemical and household products

Applications

- Suitable for high-traffic public environments: train stations, airports, schools, hospitals, laboratories, retail stores, etc.
- Suitable both for horizontal applications (worktops) and vertical applications (wall panelling).
- **PROTECT+** GRANIT finish recommended for intensive horizontal use.

Product Offer

CORE		Chipboard	MDF CHIPBOARD
SIZE		307 × 124 cm	
FINISH		FA - SURF - SOFT - BRIHG - EXM - GRAIN EPM - LEG - GRANIT - ROC - ALG	
GRADE	Standard	■	■
	Moisture resistant	■	-
	Postforming	■	-

All finishes are available in 19.6 mm thickness, except BRIHG finish which is offered in 20 mm thickness for superior shine.

POLYPREY® HPL Bonded Board



Conforms ISO 13894-2

CHARACTERISTICS	CORE		Chipboard			Standard MDF chipboard
	STANDARD	UNITS	Standard	Fire retardant	Moisture resistant	
SUBSTRATE THICKNESS	18 mm					
SURFACE	Decorative High pressure laminate					
CLASSIFICATION	EN 312 Type P2		EN 312 Type P2		EN 312 Type P3	EN 622-5

Physical and dimensional properties

CHARACTERISTICS	STANDARD	UNITS	EN 312 Type P2	EN 312 Type P2	EN 312 Type P3	EN 622-5
Density	EN 323	kg/m ³	650 +/- 10 %	700 +/- 10 %	670 +/- 10 %	760 +/- 10 %
Moisture content (ex-factory)	EN 322	%	5 à 13	5 à 13	5 à 13	4 à 11
Thickness tolerance	ISO 13894-1-6.4	mm	+/- 0,5	+/- 0,5	+/- 0,5	+/- 0,5
Length and width tolerance	ISO 13894-1-6.1	mm	+/- 3	+/- 3	+/- 3	+/- 3
Straightness tolerance	ISO 13894-1-6.2	mm/m	+/- 0,5	+/- 0,5	+/- 0,5	+/- 0,5
Squareness tolerance	ISO 13894-1-6.3	mm/m	≤ 2	≤ 2	≤ 2	≤ 2
Flatness tolerance (thickness ≥ 16 mm)	ISO 13894-1-6.7	mm/m	≤ 2	≤ 2	≤ 2	≤ 2

Mechanical properties

CHARACTERISTICS	STANDARD	UNITS	EN 312 Type P2	EN 312 Type P2	EN 312 Type P3	EN 622-5
Impact resistance (small diameter ball)	EN 438-2-20	N	≥ 15	≥ 15	≥ 15	≥ 15
Impact resistance (large diameter ball) (drop height for ≤ 10mm diameter imprint)	EN 438-2-21	mm	≥ 600	≥ 600	≥ 600	≥ 600
Glue quality	ISO 13894-1-8	Level	5	5	5	5
Surface cohesion	ISO 13894-1-9	MPa	≥ 1,0	≥ 1,0	≥ 1,0	≥ 1,0
Screw retention	ISO 13894-1-15	N	1500	1500	1500	1500
- From face		N	500	500	500	500
Bending strength	ISO 16978	MPa	≥ 35	≥ 35	≥ 35	≥ 35
- Breaking point		MPa	≥ 4500	≥ 4500	≥ 4500	≥ 4500
- Modulus of elasticity						
Perpendicular traction	ISO 13894-1-10	MPa	≥ 0,35	≥ 0,35	≥ 0,35	≥ 0,35
Water resistance - max. edge swelling	ISO 13894-1-19	%	15	15	5	15
Core steam resistance	ISO 13894-1-14	mm	≤ 0,1	≤ 0,1	≤ 0,1	≤ 0,1

Surface properties

CHARACTERISTICS	STANDARD	UNITS	EN 312 Type P2	EN 312 Type P2	EN 312 Type P3	EN 622-5
Surface defects	EN 438-2-5	mm ² /m ²	≤ 1	≤ 1	≤ 1	≤ 1
- Spots		mm ² /m ²	≤ 10	≤ 10	≤ 10	≤ 10
- Linear						
Abrasion resistance (initial point)	EN 438-2-10	No. of revolutions	GRANIT : ≥ 450 / EPM : ≥ 100 / Others finishes : ≥ 150 Pearlescent decors : ≥ 50			
Resistance to steam	EN 438-2-14	Class ^(a)	BRIHG : 3 / Others finishes : 4			
Resistance to humidity	EN 12721	Class ^(a)	BRIHG : 3 / Others finishes : 4			
Dry heat resistance 180 °C	EN 438-2-16	Class ^(a)	BRIHG : 3 / Others finishes : 4			
Scratch resistance	EN 438-2-25	Grade ^(b)	BRIHG : 2 / Others finishes : 3			
Stain Resistance	EN 438-2-26	Classe ^(a)	5	5	5	5
- Groups 1 & 2		4	4	4	4	
- Group 3						
Colour fastness under artificial light (depending on decor)	EN 438-2-27	Grayscale	4 à 5	4 à 5	4 à 5	4 à 5
Resistance to cigarette burns	EN 438-2-30	Class ^(a)	3	3	3	3

Fire performance

CHARACTERISTICS	STANDARD	UNITS	EN 312 Type P2	EN 312 Type P2	EN 312 Type P3	EN 622-5
Fire rating	EN 13501-1	Euroclass	D-s1,d0	B-s2,d0	D-s2,d0	D-s1,d0

Health and environmental characteristics

CHARACTERISTICS	STANDARD	UNITS	EN 312 Type P2	EN 312 Type P2	EN 312 Type P3	EN 622-5
Food safe	EN 13130-1		Yes	Yes	Yes	Yes
Formaldehyde emission	EN 717-2	Class	E1	E1	E1	E1
Volatile organic compounds (VOC) emission	ISO 16000-9	Class	A	A	A	A
Antibacterial properties	JIS Z 2801:2000	Reduction in %	> 99,9 %	> 99,9 %	> 99,9 %	> 99,9 %

Type P2 : Panels for dry interior design applications **Type P3** : Panels for wet interior design applications.

^(a) **Class** : 1= Surface damage. 2= Severe appearance alteration. 3= Moderate change. 4= Slight change visible from certain angles. 5= No change.

^(b) **Grade** : 2= Continuous scratches at 2N. 3= Continuous scratches at 4N.