

POLYREY HPL® High Pressure Laminate



- 1/ Protective overlay for printed decors.
- 2/ Decorative paper impregnated with melamine resin*.
- 3/ Layers of kraft paper impregnated with phenolic resin.



Properties

- A versatile, robust and hygienic surface.
- High resistance to external stress (abrasion, impacts, stains, etc.).
- Silver ion-treated, antibacterial Sanitized®* grade.
- Non porous, waterproof surface.
- Food safe (IANESCO approved).
- TOUCH Finish (anti-finger print): superficial scratches are repairable with a sponge eraser or a wet cloth with an iron. **



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: retail, hotel, office, education, health, etc.
- Suitable for covering vertical surfaces (doors, wall panels) as well as horizontal surfaces (worktops, furniture).
- Suitable for bonding to all type of substrate (wood, metal, mineral, honeycomb, etc).
- Can be cold bent or postformed for curved surfaces.

82 decors available for door applications in 215 x 97cm and 245 x 124cm.

MED certified for marine applications. Other transport certificates: upon request.

PROTECT+ GRANIT finish recommended for intensive horizontal uses.

Product Offer

SIZE		215 x 97 cm	245 x 124 cm	307 x 124 cm	307 x 132 cm		305 x 132 cm	
FINISH		FA - EXM	FA	FA	BRIHG	FA - GRAIN - GRANIT - ROC SURF - SOFT - EXM - LEG - ALG	EPM - BRIHG	TOUCH
GRADE	Standard	■	-	-	■	-	■	■
	Postforming	-	■	■	-	■	-	-
	Fire retardant	■	■	■	■	■	■	-

All finishes are available in 0.8 mm thickness, except BRIHG finish which is offered in 1 mm thickness for superior shine.

HPL larger sheet sizes (412x151 cm and 432x166 cm) are available upon request, please contact us.

*Excluding Touch (TCH).

**If the damages are significant we can't guarantee a complete refurbishment but defects will be mitigated. The sponge eraser must be occasionally used.

POLYREY HPL® High Pressure Laminate



Conforms EN 438-3

CHARACTERISTICS	DECOR / FINISH		All except Pearlescent decors, EPM and BUBBLES	Pearlescent decors, EPM and BUBBLES	Digital Signature
	STANDARD	UNITS			
THICKNESS	0.8 mm (except BRIHG 1 mm)				
GRADE	Standard - Postforming - Fire retardant				Standard - Fire retardant
CLASSIFICATION	HGP - HGS - HGF		VGP - VGS - VGF		HGS - HGF - VGS - VGF

Physical and dimensional properties

CHARACTERISTICS	STANDARD	UNITS	HGP - HGS - HGF	VGP - VGS - VGF	HGS - HGF - VGS - VGF
Density	EN ISO 1183-1	g/cm ³	≥ 1.35	≥ 1.35	≥ 1.35
Thickness tolerance	EN 438-2-5	mm	± 0.1	± 0.1	± 0.1
Length and width tolerance	EN 438-2-6	mm	- 0 / + 10	- 0 / + 10	- 0 / + 10
Straightness tolerance	EN 438-2-7	mm/m	≤ 1.5	≤ 1.5	≤ 1.5
Squareness tolerance	EN 438-2-8	mm/m	≤ 1.5	≤ 1.5	≤ 1.5
Flatness tolerance	EN 438-2-9	mm/m	60	60	60
Dimensional stability at high temperature - Longitudinal - Transverse	EN 438-2-17	%	≤ 0.55 ≤ 1.05	≤ 0.75 ≤ 1.25	≤ 0.55 ≤ 1.05

Mechanical properties

CHARACTERISTICS	STANDARD	UNITS	HGP : 10 / HGS - HGF : 20	VGP : 10 / VGS - VGF : 20	HGS : 10 / HGF - VGS - VGF : 20
Resistance to boiling water	EN 438-2-12	Class ^(a)	BRIHG : 3 / Others : 4	BRI : 3 / Others : 4	1
Impact resistance (small diameter ball)	EN 438-2-20	N	≥ 20	≥ 15	≥ 20
Impact resistance (large diameter ball) (drop height for ≤ 10mm diameter imprint)	EN 438-2-21	mm	≥ 800	≥ 600	≥ 800
Resistance to cracking	EN 438-2-23	Class ^(a)	4	4	4
Minimum bending radius (convex and concave)		cm	HGP : 10 / HGS - HGF : 20	VGP : 10 / VGS - VGF : 20	20

Surface properties

CHARACTERISTICS	STANDARD	UNITS	HGP : 10 / HGS - HGF : 20	VGP : 10 / VGS - VGF : 20	HGS : 10 / HGF - VGS - VGF : 20
Surface defects - Spots - Linear	EN 438-2-4	mm ² /m ² mm/m ²	≤ 1 ≤ 10	≤ 1 ≤ 10	≤ 1 ≤ 10
Abrasion resistance (initial point)	EN 438-2-10	No. of revolutions	GRANIT : ≥ 450 / Others : ≥ 150	EPM : ≥ 100 / Others : ≥ 50	≥ 150
Resistance to steam	EN 438-2-14	Class ^(a)	BRIHG : 3 / Others : 4 / TCH : 5	BRI : 3 / Others : 4	1 to 4 depending on DECOR
Dry heat resistance 180 °C	EN 438-2-16	Class ^(a)	BRIHG : 3 / Others : 4 / TCH : 5	BRI : 3 / Others : 4	BRI : 3 / Others : 4
Resistance to humidity	EN 12721	Class ^(a)	BRIHG : 3 / Others : 4 / TCH : 5	BRI : 3 / Others : 4	BRI : 3 / Others : 4
Scratch resistance	EN 438-2-25	Grade ^(b)	BRIHG : 2 / Others : 3 / TCH : 4	BRI : 2 / Others : 3	BRI : 2 / Others : 3
Stain Resistance - Groups 1 & 2 - Group 3	EN 438-2-26	Class ^(a)	5*** 4	5 4	5 4
Colour fastness under artificial light	EN 438-2-27	Grayscale	4 to 5	4 to 5	4 to 5
Resistance to cigarette burns	EN 438-2-30	Class ^(a)	3	3	3

Postforming properties (Postforming HPL only)

CHARACTERISTICS	STANDARD	UNITS	HGP : 10 / HGS - HGF : 20	VGP : 10 / VGS - VGF : 20	HGS : 10 / HGF - VGS - VGF : 20
Minimum Postforming radius	EN 438-2-31 or 32	mm	Th. 0.8 mm ≥ 8 mm*	Th. 0.8 mm ≥ 8 mm	-
Blister resistance	EN 438-2-33 or 34	second	≥ 15	≥ 15	-

Fire performance

CHARACTERISTICS	STANDARD	UNITS	HGP : 10 / HGS - HGF : 20	VGP : 10 / VGS - VGF : 20	HGS : 10 / HGF - VGS - VGF : 20
Fire rating	NFP 92-501	M Classification	Fire retardant: M1 Others: M3	Fire retardant: M1 Others: M3	Fire retardant: M1 Standard : M3
	EN 13501-1	Euroclasse	Fire retardant: B-s2,d0 / Others : D-s1,d0 / TCH : D-s2,d1	Fire retardant: B-s2,d0 / Others : D-s1,d0	Fire retardant: B-s2,d0 / Others : D-s1,d0
Calorific value	EN ISO 1716	MJ/kg	18 - 20*	18 - 20	18 - 20

Health and environmental characteristics

CHARACTERISTICS	STANDARD	UNITS	HGP : 10 / HGS - HGF : 20	VGP : 10 / VGS - VGF : 20	HGS : 10 / HGF - VGS - VGF : 20
Food safe	EN 13130-1		Yes	Yes	Yes
Formaldehyde emission	EN 717-2	Class	E1	E1	E1
Volatile organic compounds (VOC) emission	ISO 16000-9	Class	Others: A / TCH: A+	A	A
Antibacterial properties	JIS Z 2801	Reduction in %	> 99.9*	> 99.9	> 99.9

HGP : Horizontal Grade Postforming
HGS : Horizontal Grade Standard
HGF : Horizontal Grade Fire retardant grade

VGP : Vertical Grade Postforming
VGS : Vertical Grade Standard
VGF : Vertical Grade Fire retardant grade

^(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.

* Excluding Touch (TCH).

*** An exposure to hot liquids such as coffee or tea of more than 2H can cause slight stains on light surfaces.