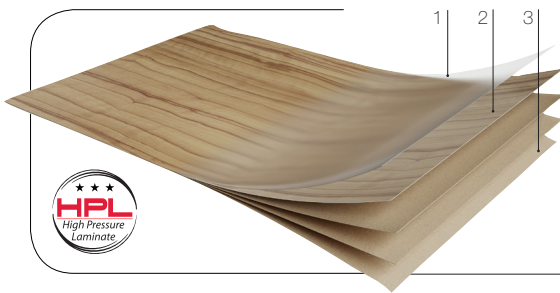


POLYREY HPL® High Pressure Laminate

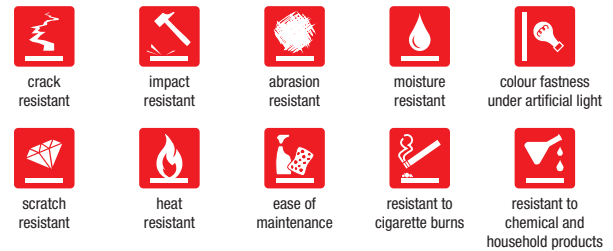


- 1/ Protective overlay for printed decors.
- 2/ Decorative paper impregnated with melamine resin*.
- 3/ Layers of kraft paper impregnated with phenolic resin.



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. **



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

CHARACTERISTICS	DECOR / FINISH		All except Pearlescent decors, EPM and BUBBLES	Pearlescent decors, EPM and BUBBLES	Digital Signature
	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
STANDARD	UNITS				

Conforms EN 438-3

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 EN 13501-1	M Classification Euroclasse	Fire retardant: M1 Others: M3 Fire retardant: B-s2,d0 / Others : D-s1,d0 / TCH : D-s2,d1	Fire retardant: M1 Others: M3 Fire retardant: B-s2,d0 / Others : D-s1,d0	Fire retardant: M1 Standard : M3 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.