



*polylac*



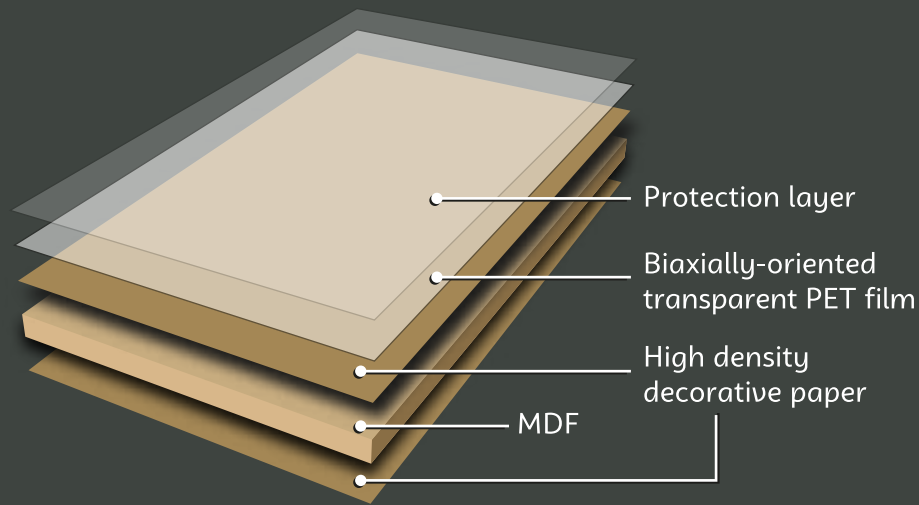
*Exclusive / Ecological / Resistant*

**gizir**<sup>®</sup>  
WOOD PRODUCTS

# What is polylac ?

Polylac is an ecological multi-layered decorative panel with "excellent scratch, stain, heat, and chemical resistance"

It also has the highest gloss level with a "99GU" gloss rating. Still achieving a "3.0 Newton (class 4B)" scratch resistance rating. Six times the scratch resistance of some acrylics in the industry!



Polylac panel is made by pressing a high density decorative paper / pp to MDF. A specially developed biaxially-oriented transparent PET film is then laminated on the surface to protect it from external factors.

# Why polylac ?

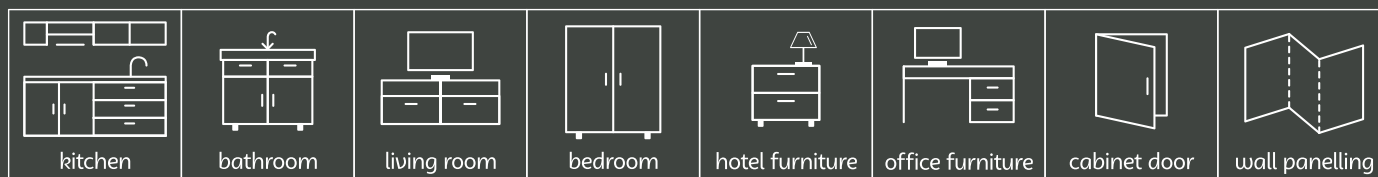
In the decorative panel industry, high gloss levels are easy to achieve, however, the higher the gloss level , the lower the scratch resistance. Polylac, through extensive testing, has proved superior levels of glossiness while maintaining a very high scratch resistance.

Polylac, due to its flexible PET film, will not crack or chip, thus making the edge banding process simple.

Polylac panels retain their original state without changing, cracking, or fading for a longer time compared to similar products in the market.

Making Polylac the ideal sustainable material for all your needs.

# Where to use ?



Polylac panel dimensions (mm): 18x1220x2800 / 8x1220x2800

Matching edgebanding: Acrylic (single color / double color), ABS

# *Polylac*



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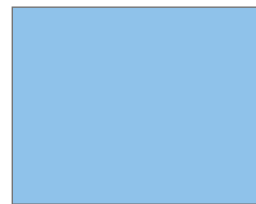
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## Features

- ▶ High gloss with mirror like finish
- ▶ Scratch, stain & heat resistant
- ▶ Smooth surface and depth effect
- ▶ Cuts without cracking or chipping
- ▶ 100% PVC free
- ▶ Very easy to clean and maintain
- ▶ Elegant designs
- ▶ Matching acrylic and ABS edge tape
- ▶ Two-toned brushed aluminum with color edge tape

\*Colors may vary. Please ask for samples.

# *Polylac*



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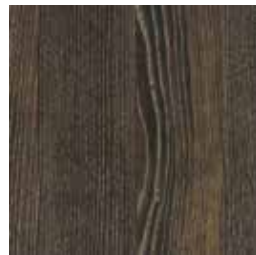
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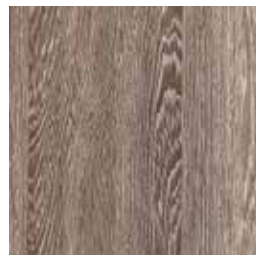
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\*Colors may vary. Please ask for samples.

WORLDWIDE IN OVER  
**90**  
COUNTRIES

## *Digital Polylac* WOOD



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# Unlimited possibilities



Polylac comes in many different beautiful colors and patterns, and with Polylac's digital image capabilities, we can produce marble, leather, wood, custom colors, logos...anything!

All Polylac products come with the same industry-leading gloss rating, durability, and reliability. Matte finish is also available.

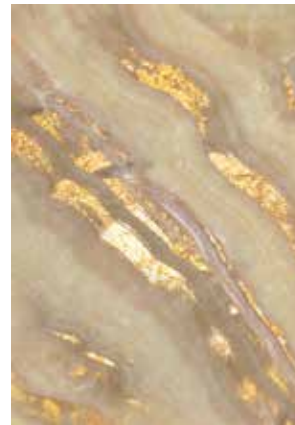
## *Digital Polylac* MARBLE



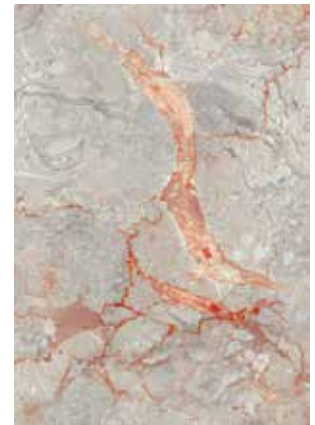
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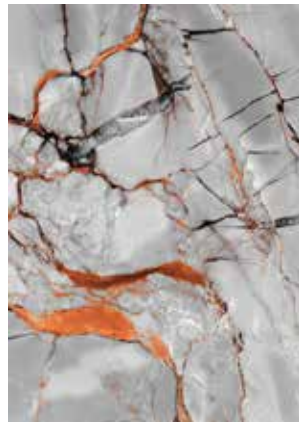
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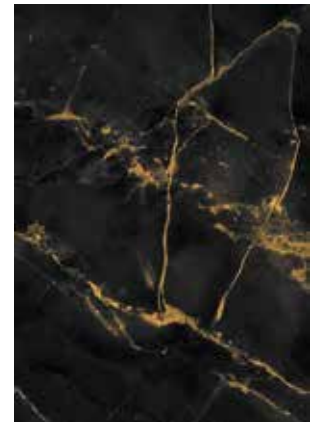
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# *Digital Polylac* STONE



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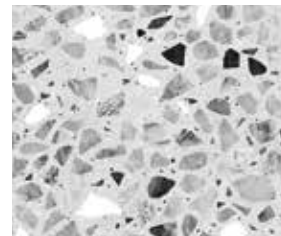
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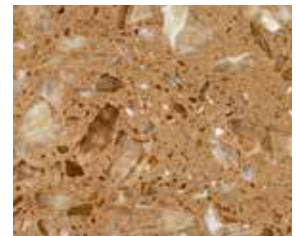
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# *Digital Polylac* TERRAZZO



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\*Colors may vary. Please ask for samples.



# *Digital Polylac* LEATHER



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# *Digital Polylac* FABRIC



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\*Colors may vary. Please ask for samples.

# Digital Polylac ART



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\*Colors may vary. Please ask for samples.

# *Digital Polylac* EPOXY



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Digital Polylac panel dimensions (mm): 18 x 1220 x 2800



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\*Colors may vary. Please ask for samples.

# TECHNICAL INFORMATIONS / POLYLAC

No	FEATURE	UNIT	RESULT	STANDARD
1	Gloss level (60° angle)	Gloss	99 GU	TS EN 14323
2	Scratch resistance	N	3,0 Newton (Class 4B)	DIN 68861 part 4
3	Assessment of surface resistance to wet heat (100°C)	Class	5 (No change)	EN 12721:09
4	Assessment of surface resistance to dry heat (140°C)	Class	5 (No change)	EN 12722:09
5	Surface abrasion resistance	-	4500 rev. (Class 4)	EN 14323 cls. 5.9
6	Behavior towards impact loading by falling steel ball	mm	No cracking	EN 14323 cls. 5.14
7	Test of water steam resistance	Class	5 (No change)	EN 14323 cls. 5.11
8	Resistance to staining	Class	5 (No change)	EN 14323 cls. 5.6
9	Assessment of surface resistance to chemical cold liquids (Acetic acid, acetone, ammonia solution, citric acid, cleaning agent, etc.)	Class	5 (No change)	TS EN 12720:2900+A1
10	Colorfastness to light	Grey Scala	4 / 5. Grade	EN 15187
11	Bending strength (*)	N / mm <sup>2</sup>	32 N / mm <sup>2</sup>	EN 310
12	Modulus of elasticity in bending (*)	N / mm <sup>2</sup>	4441 N / mm <sup>2</sup>	EN 310
13	Surface soundness (tensile strength) (*)	Mpa	1,36 N / mm <sup>2</sup>	EN 311
14	Tensile strength vertical to the surface (*)	N / mm <sup>2</sup>	0,54 N / mm <sup>2</sup>	EN 319
15	Thickness tolerance	mm	± 0,3 mm	TS EN 324-1
16	Bow tolerance	-	3,5 mm / m	Gizir
17	Cold check (40 cycles, 1 h 60°C, 15 min. room temp., 1 h -30°C, 15 min. room temp.)	-	No damage	TSE
18	Antimicrobial Products – Test for Antimicrobial Activity and Efficacy	-	E.coli / Sa.aureus ≥2 (suitable)	JIS Z 2801
19	Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi	-	0 growth at 7, 14, 21 and 28 days (suitable)	ASTM G21
20	Width and Length tolerance	mm / m	± 5 mm	TS EN 324-1
21	Formaldehyde Potential	mg / 100g	≤ 30.0	EN 120 EN 622-1

-(\*) These values are weighted average of the test results.



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