

## PoliLam ACE Surfaces Solid Core HPL

ACE Surfaces Solid Core HPL is a high-pressure decorative laminate featuring a color-through core and a monolithic design. Crafted for both light and heavy-duty use, its seamless, fingerprint-resistant surface leaves no trace—perfect for modern lifestyles.

With bold aesthetics and a touch as smooth as baby-soft skin, ACE Surfaces Solid Core HPL appeals to the senses while offering enduring strength and visual uniformity.

The solid core construction enhances edge durability and allows for clean, minimalist detailing. Low formaldehyde emissions further contribute to a healthier environment—for people and the planet.

### Key Features

Dimensions:

4x8ft ( 1220x2440mm ), 4x10ft(1220x3050mm ), 1mm±0.01mm (.039"±.005")

### Physical Properties:

Complies with EN 438-2:2016+A1:2018 requirements, ensuring performance meets standards for high strength and durability.

### Formaldehyde Emission:

Tested according to EU EN 717-1:2004 method and analyzed using UV-Vis.

Classified as E1 grade with measured values ≤0.080mg/m<sup>3</sup>, meeting air quality standards for formaldehyde emissions.

### Environmental Certifications:

Certified by GREENGUARD, GREENGUARD Gold, FSC (Forest Stewardship Council), and Singapore Green Label.

### Food Safety Certification:

Tested in accordance with EU Commission Regulation (EU) No 10/2011 and its amendments. Evaluations for overall migration, specific migration of heavy

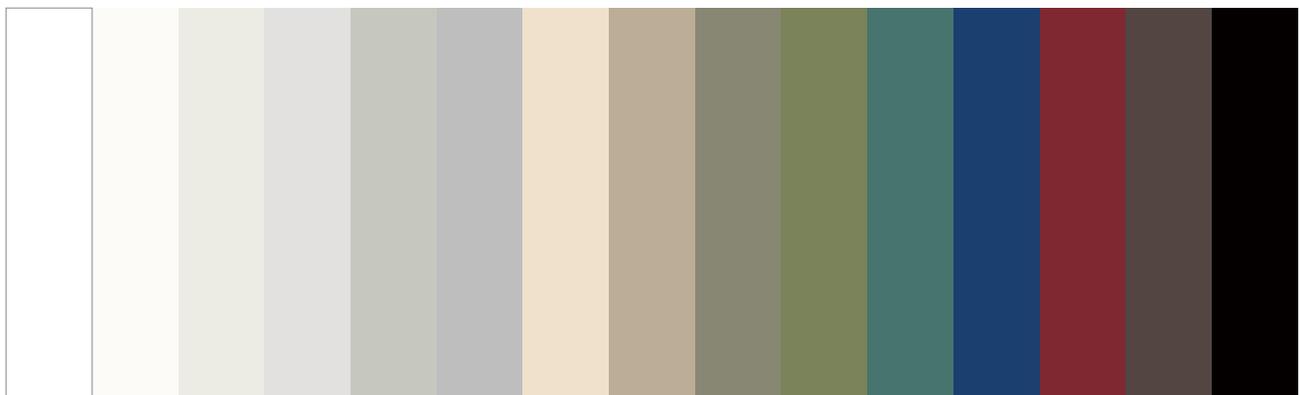
## Mechanical and Environmental Performance

- **Minor Scratch Repair with Heat:** Light scratches on Ace can be repaired by applying moderate heat, such as from hand friction or an iron, which encourages atoms to move and restore the surface.
- **Low Light Reflectivity:** Ace surface is uneven at a microscopic level, which scatters light in different directions, creating a matte finish and preventing highlights.
- **Fingerprint Resistance:** Ace Surface is polyurethane surface repels oil, preventing fingerprints, and its surface tension causes water to spread and evaporate quickly.
- **Easy to Clean:** The Ace surface is made of nanoparticles that block most dust and dirt, making it easy to clean.

## Technical Specifications

Property	Test Method	Test Result	
Thickness Tolerance	EN438-2-5/ NEMA LD03-2005	1mm±0.01mm (.039"± .005")	
Resistance to Abrasion	EN 438-2:2016+A1:2018 Clause 10	600r	
Resistance to Immersion in Boiling Water	Percentage increase in mass(%)	2.9%	
	Percentage increase in thickness(%)	2.9%	
	Surface rating scale	Rating 5	
	Edge rating scale	Rating 5	
Resistance to Water Vapour	EN 438-2:2016+A1:2018 Clause 14	Rating 5	
Resistance to Dry Heat	EN 438-2:2016+A1:2018 Clause 16	Rating 5	
Dimensional Stability at Elevated Temperature	EN 438-2:2016+A1:2018 Clause 17	Rating 5	
Resistance to Wet Heat	EN 438-2:2016+A1:2018 Clause 18	Rating 5	
Resistance to Impact by Large Diameter Ball	EN 438-2:2016+A1:2018 Clause 21	2200mm, Nocracking	
Resistance to Cracking under Stress	EN 438-2:2016+A1:2018 Clause 23	Rating 5	
Scratch Resistance	ACE	EN 438-2:2016+A1:2018 Clause 25	Rating 4 (5N)
Resistance to Staining	EN 438-2:2016+A1:2018 Clause 26	Rating 5	
Density	EN ISO 1183-1:2019 Method A	1.39 (g/cm <sup>3</sup> )	
Gloss	20°	0.2°	
	60°	1.6°	
	85°	9.7°	
Formaldehyde Emission	EN 717-1:2004	≤0.080mg/m <sup>3</sup>	
Resistance to impact by small-diameter ball	EN 438-2:2016+A1:2018 Clause 20	44N	

## ACE Surfaces Solid Core HPL Decor Collection



M0018AS M0002AS M0017AS M0021AS M0028AS M0019AS M0014AS M0013AS M0020AS C0152AP M0023AS M0010AS M0010AS M0024AS M0006AS

Featuring a range of Color Patterns and textures to suit any style. These designs add versatility and depth, ensuring a perfect match for various design projects.

## Applications

**PoliLam ACE Surfaces Solid Core HPL are perfect for a variety of interior design applications including:**

| Furniture | Wall surface | Countertop |



## Installation and Maintenance

### Installation:

The ACE surface Solid Core Compact should be laminated onto a 3mm to 5mm substrate (double-sided lamination is recommended). Dry bonding is an acceptable installation method. For panels with a thickness of 8mm or more, a keel-mounted wall installation system is recommended.

### Maintenance:

The ACE surface Solid Core HPL is easy to clean and maintain, featuring fingerprint resistance, a matte finish, and antibacterial properties. Surface scratches can be repaired by gently rubbing the affected area with a sponge.

### Handling and Storage:

Due to the large format of full-size panels, they should not be carried by a single person to avoid excessive bending or breakage. Take care to protect the edges from impact during handling and transport.

Store the panels in a dry, well-ventilated environment, away from direct sunlight and extreme temperature changes. Panels should be stacked horizontally on a flat surface with proper support to prevent warping.

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## Customer Services

Please contact [sales@polilam.com](mailto:sales@polilam.com)  
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