

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/m³, 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

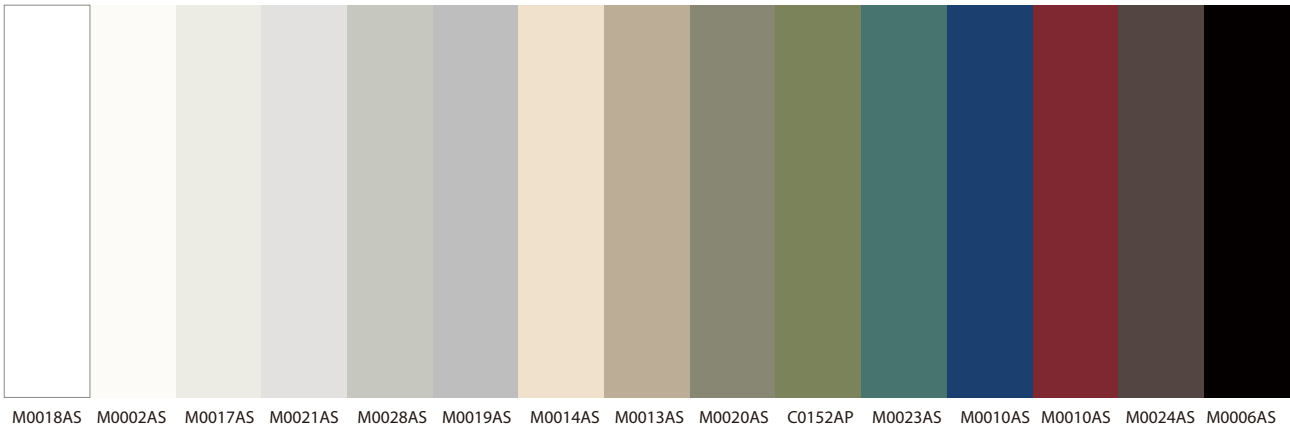
Mechanical and Environmental Performance

- 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(%)	EN 438-2:2005 Clause 12	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 Eleveated 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 Crackingunder 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/cm³)
Gloss	20°	ISO 2813:2014	0.2°
	60°		1.6°
	85°		9.7°
Formaldehyde Emission		EN 717-1:2004	≤0.080mg/m³
Resistance to impact by small-diameter ball		EN 438-2:2016+A1:2018 Clause 20	44N

ACE Surfaces Solid Core HPL Decor Collection



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.

## Customer Services

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