PoliLam

Technical Data Sheet

ACE Surfaces HPL

Bring electron beam technology to your surfaces.
Whether used for light or heavy use, ***ACE Surfaces*** are engineered to leave no trace.

Appealing to human senses, ***ACE Surfaces*** captivate with bold designs and a touch that feels as soft as a baby's skin.

ACE Surfaces HPL is a next-generation laminate with a formaldehyde-free surface. Its fingerprint-resistant finish makes cleaning a breeze, while its low overall formaldehyde emissions help create a healthier space for you and the environment.

Physical Properties:

Dimensions:

Size	Thickness
4 × 8ft	.039in ± .005in
4 ×10ft	

Complies with EN 438-2: 2016 + A1: 2018, meeting key performance standards for strength and durability.

Formaldehyde Emission:

Tested using the EU EN 717-1: 2004 method and analyzed with UV-Vis. Classified as E1 grade, with measured formaldehyde emissions below 0.080 mg/m^3, meeting air quality standards.

Environmental Certifications:

Certified by GREENGUARD, GREENGUARD Gold.

Surface Technology & Performance

Minor Scratch Repair with Heat:
Light surface scratches may be reduced using hand friction or a melamine sponge, helping restore the surface appearance.

Low Light Reflectivity (Matte Finish):
The surface texture helps scatter light to create a smooth matte finish and reduce glare.

Fingerprint Resistance:
The polyurethane surface helps repel oils and minimize visible fingerprints. It is also waterproof, and liquids evaporate quickly.

Easy to Clean:
The nano-enhanced surface helps block dust and dirt buildup, making everyday cleaning quick and easy.

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	350r
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 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, No cracking
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 5 (5N)
	MTL		Rating 3 (2.5N)
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^3)
Gloss	20°	ISO 2813:2014	0.2°
	60°		1.6°
	85°		9.7°
Formaldehyde Emissions		EN 717-1:2004	≤0.080mg/m^3
Resistance to impact by small-diameter ball		EN 438-2:2016+A1:2018 Clause 20	44N

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