

SURFORMA® LAMINATES

Decorative HPL Standard, Post-Forming and Fire Retardant for interior applications

DESCRIPTION

SURFORMA® decorative laminates, according to EN 438, are an excellent material for indoor surfaces, either horizontal or vertical. SURFORMA® decorative laminates meet the stringent requirements for hygiene, fire resistance, humidity resistance and mechanical properties.

The laminate surface is ANTIBACTERIAL, tested according to ISO 22196 and validated accordingly to Japanese regulation JIS Z 2801.

HPL are cured and therefore chemically inert. Laminates surfaces are physiologically safe and approved for use in direct contact with foodstuff.

SURFORMA® decorative laminates are available in a variety of colors, patterns and surface textures, providing extensive options for architects and designers.

Please check offer & service brochure for information on sizes and thicknesses available.

APPLICATIONS

Decorative laminates are meant to be used in interior applications either horizontal or vertical where design, appearance, quality, durability, resistance to abrasion, scratches, stains and resistance to heat from ordinary sources are important features.

SURFORMA® laminates are the best choice for residential, public and commercial areas, and healthcare applications.

PROPERTIES



LOW EMISSIONS



ANTI-STATIC



ABRASION RESISTANT



SCRATCH RESISTANT



STAIN RESISTANT



LIGHT RESISTANT



EASY TO CLEAN



DIMENSIONAL STABILITY



EASY TO MILL



FIRE RETARDANT



POSTFORMABLE

RECOMMENDATIONS

The advice and recommendations are of advisory nature only

Handling & Storage

Laminates should be stored so they are protected from moisture, humidity and direct sunlight. The laminates should preferably be store face-to-face, flat in horizontal racks. When handling or moving decorative laminates it is important that the sheets be lifted above adjacent sheets to avoid damage that can occur if the sheets are pulled or slid against each other. For larger sizes, it is recommended that sheets be carried arched along the longitudinal axis to prevent sagging. Individual sheets can also be rolled up for easier handling (roll with the decorative side to the inside, making sure to avoid any side-to-side sliding motions).

Maintenance & Cleaning

SURFORMA® laminates, with their durable, hygienic and waterproof surface, require no special maintenance. Their surface can be cleaned with warm water followed by wiping with a paper towel or soft cloth. Persistent contamination can usually be eliminated with non-abrasive household cleaners. They are resistant to most solvents and chemicals used daily at home.

Transportation, Recovery and Disposal

In terms of transport regulations, HPL is not classified as a hazardous material; therefore, labelling is not necessary. Laminates are an article and not a chemical substance and therefore the REACH regulation does not apply. Due to their high calorific value (18-20 MJ/kg) HPL are suitable for thermal recycling.

Laminates can be brought to controlled waste disposal sites according to current national and/or regional regulations

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GENERAL FEATURES

PROPERTIES	TEST METHOD	UNIT (MAX OR MIN)		HGS, HGP, HGF	VGS, VGP, VGF
Dimensional tolerance requirements (EN 438-2:2016, Clause No.)					
Thickness	EN 438-2.5	mm (max. variation)	$0,5 \leq t \leq 0,8$	± 0,10	
			$0,8 \leq t \leq 2,0$	± 0,15	
Length and with	EN 438-2.6	mm	+ 10 / - 0		
Edges straightness	EN 438-2.7	mm/m (max. deviation)	1,5		
Edges squareness	EN 438-2.8	mm/m (max. deviation)	1,5		
Flatness	EN 438-2.9	mm/m (max. deviation)	60		
General Requirements					
Resistance to surface wear	EN 438-2.10	Revolutions (min.)	Initial Point	150	50
Resistance to immersion in boiling water	EN 438-2.12	Appearance, rating (min.)	Gloss/other finishes	3 / 4	
Resistance to water vapour	EN 438-2.14	Appearance, rating (min.)	Gloss/other finishes	3 / 4	
Resistance to dry heat (160 °C)	EN 438-2.16	Appearance, rating (min.)	Gloss/other finishes	3 / 4	
Dimensional stability at elevated temperature	EN 438-2.17	Cumulative dimensional change % (max.)	Longitudinal	0,55	0,75
			Transversal	1,05	1,25
Resistance to wet heat (100 °C)	EN 438-2.18	Appearance, rating (min.)	Gloss/other finishes	3 / 4	
Resistance to impact by small diameter ball	EN 438-2.20	Spring force, N (min.)	20		15
Resistance to scratching	EN 438-2.25	Force (min.)	Smooth/ Textured finishes	2 / 3	1 / 2
Resistance to staining	EN 438-2.26	Appearance, rating (min.)	Group 1 e 2 / Group 3	5 / 4	
Light fastness (xenon arc)	EN 438-2.27	Contrast	Grey scale rating	4 a 5	
Density	EN ISO 1183-1	Density, g/cm ³ (min.)	1,35		

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Additional requirements for postformable - Type P laminates					
Formability	EN 438-2:31 o 32	Radius, mm	Longitudinal	10 x laminates nominal thickness	
			Transversal	20 x laminates nominal thickness	
Resistance to blistering	EN 438-2:33 o 34	Time to blister, seconds (t2 - t1)	Thickness <0,8 mm	≥ 10	
			Thickness <0,8 mm	≥ 15	
Additional requirements for reaction to fire - Type F laminates					
Reaction to fire	NFP 92-501		Clase M	M1	
Brandschacht	DIN 4102-1		Clase B	B1	
Propagation of fire	BS 476 - 7		Clase	Class 1	
Heat release	IMO Res. A653 (16)			Approved	
Calorific Power	EN ISO 1716		mJ / kg	18 - 20	
Typical EN 13501-1 classifications of HPL composite panels in the field of building construction					
In Europe, laminate panels intended for construction applications are tested in accordance with EN 13823 (1) (SBI test) and EN ISO 11925-2 (2) (Small-burner test), and the resulting reaction-to-fire performance is expressed in accordance with EN 13501-1.					
Composite panels comprising HPL type F bonded to non-combustible substrates				B-s2,d0	
Composite panels comprising HPL type F bonded to FR wood-based substrates				C-s2,d0	
Composite panels comprising HPL type S or P bonded to non-FR wood-based substrates				D-s2,d0	

SURFORMA® Laminates are classified in accordance with EN 438 – Sheets based on thermosetting resins (Usually called Laminates) – Part 3: Classification and specifications for laminates less than 2mm thick intended for bonding to supporting substrates. For more information about these properties, please refer to the corresponding Technical Datasheet.

Our due diligence system for tracing the origin of wood - FSC® & PEFC standards:

The well-known certification systems for sustainable forest management FSC and PEFC are equally evaluated by us to ensure traceability of timber throughout the supply chain, from harvest through to the finished product as a proof that the wood originally comes from certified and sustainably managed forests and other controlled sources.

In addition to providing assurance, FSC and PEFC certified materials can also support customers' LEED and BREEAM certification strategies.

CERTIFICATIONS

