

Melamine impregnated decorative paper

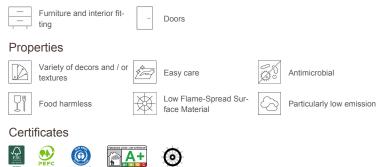
Impregnated craft paper, reverse side sanded

November 2024

Technical data Duropal HPL IMO

Decorative high-pressure laminate in postforming quality conforming to EN 438-3:HGP/VGP "Low Flame-Spread Surface Material" with robust melamine resin surface and sanded reverse.

Applications



Specification				Unit	Test standard
Nominal thickness	0.6	0.8	1.2	mm	
Tolerance on thickness	± 0.1	± 0.1	± 0.15	mm	EN 438-2
Tolerance on length		+ 10		mm	EN 438-2
Tolerance on width	+ 10			mm	EN 438-2
Surface defects	max. 1 ¹⁾ max. 10 ²⁾			mm²/m² mm/m²	EN 438-2
Edge defects		max. 20		mm	EN 438-2
Straightness of edges	max. 1.5			mm/m	EN 438-2
Squareness	max. 1.5			mm/m	EN 438-2
Flatness (length)	max. 60			mm/m	EN 438-2
Density	min. 1,350			kg/m³	EN ISO 1183-1
Dimensional stability at elevated temperature (length)	max. 0.55 ³⁾ max. 0.75 ⁴⁾			%	EN 438-2
Dimensional stability at elevated temperature (width)	max. 1.05 ³⁾ max. 1.25 ⁴⁾			%	EN 438-2
Resistance to wet heat, 100 °C (gloss finishes)	min. 3			rating	EN 438-2
Resistance to wet heat, 100 °C (other finishes)	min. 4			rating	EN 438-2
Resistance to dry heat, 160 °C (gloss finishes)	min. 3			rating	EN 438-2
Resistance to dry heat, 160 °C (other finishes)	min. 4			rating	EN 438-2
Resistance to water vapour (gloss finishes)	min. 3			rating	EN 438-2
Resistance to water vapour (oth- er finishes)	min. 4			rating	EN 438-2
Resistance to immersion in boil- ing water (gloss finishes)	min. 3			rating	EN 438-2

+49 (0) 91 81 28 48 0 +49 (0) 91 81 28 48 2 info@pfleiderer.com www.pfleiderer.com

phone

Fax



November 2024

Technical data Duropal HPL IMO

Specification				Unit	Test standard
Nominal thickness	0.6	0.8	1.2	mm	
Resistance to immersion in boil- ing water (other finishes)		min. 4		rating	EN 438-2
Resistance to surface wear	min. 50 ⁴⁾ min. 150 ³⁾			cycles	EN 438-2
Resistance to scratching (smooth finishes)	min. 1 ⁴⁾ min. 2 ³⁾			rating	EN 438-2
Resistance to scratching (tex- tured finishes)	min. 2 ⁴⁾ min. 3 ³⁾		rating	EN 438-2	
Resistance to impact (small di- ameter ball)	min. 15 ⁴⁾ min. 20 ³⁾			Ν	EN 438-2
Stain resistance (groups 1 & 2)	min. 5		rating	EN 438-2	
Stain resistance (group 3)	min. 4		rating	EN 438-2	
Resistance to colour change (xenon arc light)	4 to 5 Grey Scale Grade			EN 438-2	
Marine Approvals	MED MER USCG CCS	MED MER USCG CCS	MED USCG		
Formaldehyde emission class	E1 E05			EN 717-1	
Formability (length)	min. 10 x t ⁵⁾	min. 10 x t ⁵⁾	min. 10 x t ⁵⁾ Depending on decor and structure – pro- cessing tests are to be carried out		EN 438-2
Formability (width)	Not determine	d, processing tests are t	o be carried out.		

¹⁾ Dirt, spots and similar surface defects ²⁾ Fibres, hairs and scratches

³⁾ Classification HGP

⁴⁾ Classification VGP

 $^{5)}$ t = nominal thickness

Additional information

Product standard	• EN 438-3
Areas of application	 Flame retardant surface material for preventive fire protection in the decorative sector in ship interior fitting. Particularly for corridors and stairways, for partition walls, doors, wall and ceiling coverings.
Product safety	 This product follows the REACH regulation EC 1907/2006 an article. Following Article 7 it does not need to be registered. The surface is physiologically safe, and approved for direct contact with food acc. to Regulation (EU) No. 10/2011. The decorative surface and the core consists of paper layers, which are impregnated with thermosetting resins. The resins harden completely during the manufacturing process by heat and high-pressure. They form a stable, resistant and non-reactive material. We manufacture the panels without the use of halogens, heavy metals, preservatives, wood protectors or organic solvents.



November 2024

Technical data Duropal HPL IMO

Antimicrobial effect	Surface with antimicrobial effect in 24 h for interior fit-out and finishes – Test Methodology JIS Z 2801 / ISO 22196
Special	 The coarser the structure and the lighter the decor, the greater the scratch resistance. The smoother the structure and the the darker the decor, the more sensitive it is to stains. Depending on the decor and surface texture, slightly different surface visual impressions can result between cut panels viewed from different angles. This is a result of the production methods and does not constitute a quality defect. Especially for large applications, we recommend paying attention to the colour and texture uniformity of the boards and cut products used when further processing and installing and that the production direction is taken into account. With intensive plain decors, especially in the red range, colour pigment wash-out may occur under certain circumstances. It is possible that colour pigments are not bound by the resin during the impregnation of the decor paper and are only deposited on the surface of the impregnate and are thus directly on the surface. If cleaning is then carried out, slight discolouration of the cleaning cloths can be observed. This is particularly the case when solvent-based cleaners are used. This is not a product defect. Classification MED, MER, USCG, CCS for the widths 915 mm / 950 mm / 1,050 mm / 1,300 mm Classification MED, HGF is achieved with the surface textures recommended for horizontal applications. Requirements of classification VGP / VGS / VGF are met by all surface textures. Please refer to our sales documentation, to check which textures are available for this product.
Note	 FSC certification or PEFC certification available on request. FSC license code: FSC[®] C011773 PEFC license code: PEFC/04-32-0828
Colour and surface match	 Decor, structure and core board all influence the final appearance of the end product. Due to the product-specific differences in production technologies, even identical decor/structure/core board combinations can result in slight optical and tactile deviations across different product groups and formats. Such deviations do not constitute a defect. The choice of surface structure in particular has a significant influence on the visual impression, the tactile perception as well as the technical characteristics of the product. Thus, the overall impression of a decor can change almost completely depending on the surface structure. Furthermore, mechanical influences on the product surface can lead to a higher contrast optical perception with dark decors. To ensure that you always achieve the best results with our products and to clarify any deviations in advance, we will be happy to advise you individually.

Further information on products, formats and decor/structure combinations is available at www.pfleiderer.com

Fax

© Copyright 2024 Pfleiderer Deutschland GmbH

This information is issued with great care. We do not however accept any responsibility for the accuracy, completeness and timeliness. There may be slight colour differences between the printed brochure image and the actual design.

Due to the continuous development and modification of our products, possible changes to the relevant standards, laws and regulations, our technical data sheets and product documents expressly do not represent a legally binding guarantee of the properties specified therein. In particular, no suitability for a specific purpose can be derived from this information. It is therefore the personal responsibility of the individual user to check the processing and suitability of the products described in this document for the intended use and to take into account the legal framework and the current state of the art. Furthermore, we expressly refer to the validity of our general terms and conditions.

You can find our general terms and conditions on our webpage: www.pfleiderer.com

Pfleiderer Deutschland GmbH
Ingolstädter Str. 51
92318 Neumarkt
Germany

+49 (0) 91 81 28 48 0 phone +49 (0) 91 81 28 48 2 info@pfleiderer.com www.pfleiderer.com