

Technical data

Duropal HPL Individual Motiv IMO

High pressure laminate in standard quality with individual digital printed motifs in accordance with EN 438-3:HGS/VGS „Low Flame-Spread Surface Material“. The reverse is sanded ready for gluing. Our well-known Individual world from just 1 piece upwards, where your image files can be used as a motif.

Melamine resin-impregnated motif print

Impregnated craft paper, reverse side sanded

Applications



Furniture and interior fitting

Properties



Individual printed motif



Easy care



Antimicrobial



Food harmless



Low Flame-Spread Surface Material



Particularly low emission

Certificates



Specification		Unit	Test standard
Nominal thickness	1.2	mm	
Tolerance on thickness	± 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⁾	mm ² /m ² mm/m ²	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	µm	EN 438-2
Density	min. 1,350	kg/m ³	EN ISO 1183-1
Dimensional stability at elevated temperature (length)	max. 0.55 ³⁾ max. 0.75 ³⁾	%	EN 438-2
Dimensional stability at elevated temperature (width)	max. 1.05 ³⁾ min. 1.25 ³⁾	%	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. 3	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. 3	rating	EN 438-2
Resistance to water vapour (gloss finishes)	min. 1	rating	EN 438-2
Resistance to water vapour (other finishes)	min. 1	rating	EN 438-2
Resistance to immersion in boiling water (gloss finishes)	min. 1	rating	EN 438-2

Technical data

Duropal HPL Individual Motiv IMO

Specification		Unit	Test standard
Nominal thickness	1.2	mm	
Resistance to immersion in boiling water (other finishes)	min. 1	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 (textured finishes)	min. 2 ⁴⁾ min. 3 ³⁾	rating	EN 438-2
Resistance to scratching	min. 1 min. 2	rating	
Resistance to impact (small diameter ball)	min. 15 ⁴⁾ min. 20 ³⁾	N	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 USCG Transport Canada		
Formaldehyde emission class	E1		EN 717-1
Formability (length)	The material is not suitable for post forming.		EN 438-2
Formability (width)	The material is not suitable for post forming.		

¹⁾ Dirt, spots and similar surface defects

²⁾ Fibres, hairs and scratches

³⁾ Classification HGS

⁴⁾ Classification VGS

Additional information

Product standard	<ul style="list-style-type: none"> in accordance with EN 438-3
Areas of application	<ul style="list-style-type: none"> 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. Whenever, in addition to preventive fire protection in shipbuilding, special demands are made on individual design, ease of care or durability.
Marine Approvals	<ul style="list-style-type: none"> MED – Low Flame-Spread Surface Material USCG – Low Flame-Spread Surface Material Transport Canada – Low Flame Spread Surface Linings
Product safety	<ul style="list-style-type: none"> 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.

Technical data

Duropal HPL Individual Motiv IMO

Antimicrobial effect	<ul style="list-style-type: none"> Surface with antimicrobial effect in 24 h for interior fit-out and finishes – Test Methodology JIS Z 2801 / ISO 22196
Special	<ul style="list-style-type: none"> Colour differences can occur in follow-up production lots. 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. The material is not suitable for post forming. Maximum motif format per board, incl. overprinting: 2,750 mm x 2,030 mm. Larger motifs can be tiled. Assignment of the motifs parallel with the edge of the coreboard is not possible for production reasons. 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. Cut to size is not available. Please consider that digital printed laminates are, because of their material composition, slightly harder and more brittle than classical laminates. Classification HGP / HGS / 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	<ul style="list-style-type: none"> FSC certification or PEFC certification available on request. FSC license code: FSC® C011773 PEFC license code: PEFC/04-32-0828
Colour and surface match	<ul style="list-style-type: none"> 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

© Copyright 2022 Pfleiderer Deutschland GmbH

This information has been compiled with the greatest care. Nevertheless we can assume no liability for the correctness, completeness and up-to-dateness of this information. Colour deviations caused by the printing technology are possible. In view of the ongoing further development and adaptation of our products, possible amendments to the relevant standards, laws and regulations, our technical data sheets and product documentation expressly do not constitute a legally binding assurance of the properties described there. In particular no guarantee of suitability for a concrete application can be derived. It is therefore the personal responsibility of the individual user in all cases to check the processing and suitability of the products described in this document for the intended application in advance, and to take into consideration the legal framework and the respective state-of-the-art. We furthermore expressly draw attention to the applicability 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

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