

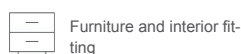
Technical data

Duropal Element SolidColor MDF plus

HPL bonded board consisting of a medium-density fibreboard (MDF) with uniform structure, surfaced on both sides with Duropal SolidColor, a decor-identical through-coloured laminate core.



Applications



Properties



Certificates



Specification					Unit	Test standard
Nominal thickness	9.6	17.6	19.6	20.6	mm	
HPL-thickness	0.8	0.8	0.8	0.8	mm	
Design front edge	not processed					
Design rear edge	not processed					
Tolerance on thickness	± 0.5				mm	ISO 13894-1
Tolerance on length	± 5				mm	ISO 13894-1
Tolerance on width	± 5				mm	ISO 13894-1
Surface defects – HPL	max. 1 ¹⁾ max. 10 ²⁾				mm ² /m ² mm/m ²	EN 438-2
Straightness of edges	± 0.5				mm/m	ISO 13894-1
Squareness	≤ 2				mm/m	ISO 13894-1
Flatness (length)	max. 2				mm/m	ISO 13894-1
Flatness (width)	max. 2				mm/m	ISO 13894-1
Resistance to dry heat, 160 °C (other finishes) – HPL	min. 4				rating	EN 438-2
Resistance to water vapour (other finishes) – HPL	min. 4				rating	EN 438-2
Resistance to surface wear – HPL	min. 150				cycles	EN 438-2
Resistance to scratching (other finishes) – HPL	min. 3				rating	EN 438-2
Stain resistance (groups 1 & 2) – HPL	min. 5				rating	EN 438-2
Stain resistance (group 3) – HPL	min. 4				rating	EN 438-2
Resistance to colour change (xenon arc light) – HPL	min. 4 Grey Scale Grade ³⁾ min. 3 Grey Scale Grade ⁴⁾					EN 438-2
Reaction to fire	normally flammable					
Reaction to fire (Euroclass)	not classified	D-s2,d0	D-s2,d0	D-s2,d0		EN 13501-1, CWFT conforming to 2003/593/EG
Formaldehyde emission class	E1 E05 TSCA Title VI					EN 717-1
Mean density	720 ⁵⁾	710 ⁵⁾	710 ⁵⁾	710 ⁵⁾	kg/m ³	EN 323

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Nominal thickness	9.6	17.6	19.6	20.6	mm	
HPL-thickness	0.8	0.8	0.8	0.8	mm	
Bending strength	25 ⁵⁾	23 ⁵⁾	23 ⁵⁾	23 ⁵⁾	N/mm ²	EN 310
Modulus of elasticity (bending stiffness)	2,200 ⁵⁾	2,100 ⁵⁾	2,100 ⁵⁾	2,100 ⁵⁾	N/mm ²	EN 310
Internal bond	0.55 ⁵⁾	0.45 ⁵⁾	0.45 ⁵⁾	0.45 ⁵⁾	N/mm ²	EN 319
Resistance to fixings (face)	≥ 100	≥ 1,500	≥ 1,500	≥ 1,500	N	ISO 13894-1
Resistance to fixings (edge)		≥ 500			N	ISO 13894-1
Bonding strength		≥ 0.8			N/mm ²	ISO 13894-1
Flexural tensile strength		≥ 0.8			N/mm ²	ISO 13894-1
Durability – Glue-line quality		≥ 3			rating	ISO 13894-1
Durability – Resistance to elevated temperature		no effect				ISO 13894-1

¹⁾ Dirt, spots and similar surface defects

²⁾ Fibres, hairs and scratches

³⁾ Texture

⁴⁾ Core layers

⁵⁾ Core material

Additional information

Product standard	in accordance with EN 13894-2
Areas of application	The special material composition opens up new possibilities for discerning furniture and interior design concepts. In the private sector, but also in restaurants, in cultural and conference centres, banks, offices and in shop design. For installations, design and presentation elements, shelving, furniture fronts, racking, desks, tabletops and worktops, etc. However, the material is not suitable for areas that are subject to major climatic fluctuations in terms of temperature and humidity or that are subject to permanent exposure to moisture.
Core material	- StyleBoard MDF plus - Medium-density fibreboard (MDF), with a uniform structure.
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.

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Antimicrobial effect	Surface with antimicrobial effect in 24 h for interior fit-out and finishes – Test Methodology JIS Z 2801 / ISO 22196
Special	- 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. - Please note that due to their material composition, through-dyed laminates are somewhat harder and more brittle than classic laminates with dark phenol resin core and are subject to marked warp in the event of climate fluctuations. - Due to the through-dyed core of the material, slight colour variations to other products cannot be avoided.
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

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