

Technical data

Duropal Element P2

HPL bonded board consisting of a particleboard type P2 conforming to EN 312, surfaced on both sides with Duropal HPL.

Applications



Furniture and interior fitting



Properties



Variety of decors and / or textures



Easy care



Antimicrobial



Food harmless



Particularly low emission

Certificates



Specification						Unit	Test standard
Nominal thickness	9.6	16	17.6	19	20.6	mm	
HPL-thickness	0.8	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	max. 2	max. 2	max. 2	mm/m	ISO 13894-1
Flatness (width)	-	max. 2	max. 2	max. 2	max. 2	mm/m	ISO 13894-1
Resistance to wet heat, 100 °C (gloss finishes) – HPL	min. 3					rating	EN 438-2
Resistance to wet heat, 100 °C (other finishes) – HPL	min. 4					rating	EN 438-2
Resistance to dry heat, 160 °C (gloss finishes) – HPL	min. 3					rating	EN 438-2
Resistance to dry heat, 160 °C (other finishes) – HPL	min. 4					rating	EN 438-2
Resistance to water vapour (gloss finishes) – HPL	min. 3					rating	EN 438-2
Resistance to water vapour (other finishes) – HPL	min. 4					rating	EN 438-2
Resistance to surface wear – HPL	min. 50 ³⁾ min. 150 ⁴⁾					cycles	EN 438-2
Resistance to scratching (smooth finishes) – HPL	min. 1 ³⁾ min. 2 ⁴⁾					rating	EN 438-2

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Nominal thickness	9.6	16	17.6	19	20.6	mm	
HPL-thickness	0.8	0.8	0.8	0.8	0.8	mm	
Resistance to scratching (textured finishes) – HPL	min. 2 ³⁾ min. 3 ⁴⁾					rating	EN 438-2
Resistance to impact (small diameter ball)	min. 15					N	ISO 13894-1
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	4 to 5 Grey Scale Grade						EN 438-2
Reaction to fire	normally flammable						
Reaction to fire (Euroclass)	not classified	D-s2,d0	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⁾	670 - 650 ⁵⁾	670 - 650 ⁵⁾	670 - 650 ⁵⁾	670 - 650 ⁵⁾	kg/m ³	EN 323
Bending strength	11 ⁵⁾					N/mm ²	EN 310
Modulus of elasticity (bending stiffness)	1,800 ⁵⁾	1,600 ⁵⁾	1,600 ⁵⁾	1,600 ⁵⁾	1,600 ⁵⁾	N/mm ²	EN 310
Internal bond	0.4 ⁵⁾	0.35 ⁵⁾	0.35 ⁵⁾	0.35 ⁵⁾	0.35 ⁵⁾	N/mm ²	EN 319
Resistance to fixings (face)	≥ 40	≥ 600	≥ 600	≥ 600	≥ 600	N/mm N	ISO 13894-1
Resistance to fixings (edge)	-	≥ 350	≥ 350	≥ 350	≥ 350	N	ISO 13894-1
Bonding strength	≥ 0.6					N/mm ²	ISO 13894-1
Flexural tensile strength	≥ 0.6					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⁾ Classification VGP

⁴⁾ Classification HGP

⁵⁾ Core material

Specification					Unit	Test standard
Nominal thickness	23.6	25	29.6	39.6	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

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Specification					Unit	Test standard
Nominal thickness	23.6	25	29.6	39.6	mm	
HPL-thickness	0.8	0.8	0.8	0.8	mm	
Flatness (width)	max. 2				mm/m	ISO 13894-1
Resistance to wet heat, 100 °C (gloss finishes) – HPL	min. 3				rating	EN 438-2
Resistance to wet heat, 100 °C (other finishes) – HPL	min. 4				rating	EN 438-2
Resistance to dry heat, 160 °C (gloss finishes) – HPL	min. 3				rating	EN 438-2
Resistance to dry heat, 160 °C (other finishes) – HPL	min. 4				rating	EN 438-2
Resistance to water vapour (gloss finishes) – HPL	min. 3				rating	EN 438-2
Resistance to water vapour (other finishes) – HPL	min. 4				rating	EN 438-2
Resistance to surface wear – HPL	min. 50 ³⁾ min. 150 ⁴⁾				cycles	EN 438-2
Resistance to scratching (smooth finishes) – HPL	min. 1 ³⁾ min. 2 ⁴⁾				rating	EN 438-2
Resistance to scratching (textured finishes) – HPL	min. 2 ³⁾ min. 3 ⁴⁾				rating	EN 438-2
Resistance to impact (small diameter ball)	min. 15				N	ISO 13894-1
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	4 to 5 Grey Scale Grade					EN 438-2
Reaction to fire	normally flammable					
Reaction to fire (Euroclass)	D-s2,d0	D-s2,d0	not classified	not classified		EN 13501-1, CWFT conforming to 2003/593/EG
Formaldehyde emission class	E1 E05 TSCA Title VI					EN 717-1
Mean density	630 - 610 ⁵⁾	630 - 610 ⁵⁾	600 - 580 ⁵⁾	580 - 540 ⁵⁾	kg/m ³	EN 323
Bending strength	10.5 ⁵⁾	10.5 ⁵⁾	9.5 ⁵⁾	8.5 ⁵⁾	N/mm ²	EN 310
Modulus of elasticity (bending stiffness)	1,500 ⁵⁾	1,500 ⁵⁾	1,350 ⁵⁾	1,200 ⁵⁾	N/mm ²	EN 310
Internal bond	0.3 ⁵⁾	0.3 ⁵⁾	0.25 ⁵⁾	0.2 ⁵⁾	N/mm ²	EN 319
Resistance to fixings (face)	≥ 600				N/mm N	ISO 13894-1
Resistance to fixings (edge)	≥ 350				N	ISO 13894-1
Bonding strength	≥ 0.6				N/mm ²	ISO 13894-1
Flexural tensile strength	≥ 0.6				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

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Additional information

Product standard	in accordance with EN 13894-2
Areas of application	Furniture production and interior design wherever high demands are made on quality and durability: For kitchen and interior design furniture, in shop fitting and partition wall construction, for interior fitting of banks, offices, schools, clinics, laboratories, retail buildings, in shipbuilding and motor vehicle construction.
Core material	- ClassicBoard P2 - Urea resin-bonded particleboard, type P2 conforming to EN 312, suitable for non load-bearing purposes in dry areas.
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 organohalogens, heavy metals, preservatives, wood protectors or organic solvents.
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 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	- 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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