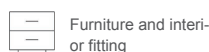


## Technical data

### Duropal Element P2

Flat bonded element consisting of a particleboard construction, Type P2 to EN 312, surfaced on both sides with Duropal HPL.

#### Applications



Furniture and interior fitting



#### Properties



#### Certificates



Specification						Unit	Test standard
Nominal thickness	9.6	16	17.6	19	20.6	mm	
HPL-thickness in mm	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 <sup>1)</sup> max. 10 <sup>2)</sup>					mm <sup>2</sup> /m <sup>2</sup> mm/m <sup>2</sup>	EN 438-3:2016
Straightness of edges	± 0.5					mm/m	ISO 13894-1
Squareness	≤ 2					mm/m	ISO 13894-1
Flatness (length)	≤ 2					mm/m	ISO 13894-1
Flatness (width)	≤ 2					mm/m	ISO 13894-1
Resistance to wet heat, 100 °C (smooth finishes) - HPL	min. 3					rating	EN 438-2:2016
Resistance to wet heat, 100 °C (textured finishes) - HPL	min. 4					rating	EN 438-2:2016
Resistance to dry heat, 160 °C (smooth finishes) - HPL	min. 3					rating	EN 438-2:2016
Resistance to dry heat, 160 °C (textured finishes) - HPL	min. 4					rating	EN 438-2:2016
Resistance to water vapour (smooth finishes) - HPL	min. 3					rating	EN 438-2:2016
Resistance to water vapour (textured finishes) - HPL	min. 4					rating	EN 438-2:2016
Resistance to surface wear - HPL	min. 50 <sup>3)</sup> min. 150 <sup>4)</sup>					cycles	EN 438-2:2016
Resistance to scratching (smooth finishes) - HPL	min. 1 <sup>3)</sup> min. 2 <sup>4)</sup>					rating	EN 438-2:2016
Resistance to scratching (textured finishes) - HPL	min. 2 <sup>3)</sup> min. 3 <sup>4)</sup>					rating	EN 438-2:2016

## Technical data

### Duropal Element P2

Specification						Unit	Test standard
Nominal thickness	9.6	16	17.6	19	20.6	mm	
HPL-thickness in mm	0.8	0.8	0.8	0.8	0.8	mm	
Resistance to impact (small diameter ball)	≥ 15					N/mm	ISO 13894-1
Stain resistance (groups 1 & 2) - HPL	min. 5					rating	EN 438-2:2016
Stain resistance (group 3) - HPL	min. 4					rating	EN 438-2:2016
Resistance to colour change (xenon arc light) - HPL	4 to 5 Grey Scale Grade						EN 438-2:2016
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 acc. to 2003/593/EG
Formaldehyde emission class	E1 E05						EN 717-1
Mean density	≥ 720 <sup>5)</sup>	640 - 620 <sup>5)</sup>	640 - 620 <sup>5)</sup>	640 - 620 <sup>5)</sup>	640 - 620 <sup>5)</sup>	kg/m <sup>3</sup>	EN 323
Bending strength - Raw core materials	11 <sup>5)</sup>					N/mm <sup>2</sup>	EN 310
Modulus of elasticity (bending stiffness) - Raw core materials	1,800 <sup>5)</sup>	1,600 <sup>5)</sup>	1,600 <sup>5)</sup>	1,600 <sup>5)</sup>	1,600 <sup>5)</sup>	N/mm <sup>2</sup>	EN 310
Internal bond - Raw core materials	0.4 <sup>5)</sup>	0.35 <sup>5)</sup>	0.35 <sup>5)</sup>	0.35 <sup>5)</sup>	0.35 <sup>5)</sup>	N/mm <sup>2</sup>	EN 319
Surface soundness - Raw core materials	0.8 <sup>5)</sup>					N/mm <sup>2</sup>	EN 311
Durability - Water resistance	≤ 15					%	ISO 13894-1
Resistance to fixings (face)	≥ 100	≥ 1,500	≥ 1,500	≥ 1,500	≥ 1,500	N/mm	ISO 13894-1
Resistance to fixings (edge)		≥ 500	≥ 500	≥ 500	≥ 500	N/mm	ISO 13894-1
Bonding strength	≥ 0.6					N/mm <sup>2</sup>	ISO 13894-1
Flexural tensile strength	≥ 0.6					N/mm <sup>2</sup>	ISO 13894-1
Durability - Glue-line quality	≥ 3					rating	ISO 13894-1
Durability - Resistance to elevated temperature	no effect						ISO 13894-1

<sup>1)</sup> Dirt, spots and similar surface defects

<sup>2)</sup> Fibres, hairs and scratches

<sup>3)</sup> Classification VGP

<sup>4)</sup> Classification HGP

<sup>5)</sup> Core material

Specification					Unit	Test standard
Nominal thickness	23.6	25	29.6	39.6	mm	
HPL-thickness in mm	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 <sup>1)</sup> max. 10 <sup>2)</sup>				mm <sup>2</sup> /m <sup>2</sup> mm/m <sup>2</sup>	EN 438-3:2016
Straightness of edges	± 0.5				mm/m	ISO 13894-1
Squareness	≤ 2				mm/m	ISO 13894-1
Flatness (length)	≤ 2				mm/m	ISO 13894-1

## Technical data

### Duropal Element P2

Specification					Unit	Test standard
Nominal thickness	23.6	25	29.6	39.6	mm	
HPL-thickness in mm	0.8	0.8	0.8	0.8	mm	
Flatness (width)	≤ 2				mm/m	ISO 13894-1
Resistance to wet heat, 100 °C (smooth finishes) - HPL	min. 3				rating	EN 438-2:2016
Resistance to wet heat, 100 °C (textured finishes) - HPL	min. 4				rating	EN 438-2:2016
Resistance to dry heat, 160 °C (smooth finishes) - HPL	min. 3				rating	EN 438-2:2016
Resistance to dry heat, 160 °C (textured finishes) - HPL	min. 4				rating	EN 438-2:2016
Resistance to water vapour (smooth finishes) - HPL	min. 3				rating	EN 438-2:2016
Resistance to water vapour (textured finishes) - HPL	min. 4				rating	EN 438-2:2016
Resistance to surface wear - HPL	min. 50 <sup>3)</sup> min. 150 <sup>4)</sup>				cycles	EN 438-2:2016
Resistance to scratching (smooth finishes) - HPL	min. 1 <sup>3)</sup> min. 2 <sup>4)</sup>				rating	EN 438-2:2016
Resistance to scratching (textured finishes) - HPL	min. 2 <sup>3)</sup> min. 3 <sup>4)</sup>				rating	EN 438-2:2016
Resistance to impact (small diameter ball)	≥ 15				N/mm	ISO 13894-1
Stain resistance (groups 1 & 2) - HPL	min. 5				rating	EN 438-2:2016
Stain resistance (group 3) - HPL	min. 4				rating	EN 438-2:2016
Resistance to colour change (xenon arc light) - HPL	4 to 5 Grey Scale Grade					EN 438-2:2016
Reaction to fire	normally flammable					
Reaction to fire (Euroclass)	D-s2,d0	D-s2,d0	not classified	not classified		EN 13501-1, CWFT acc. to 2003/593/EG
Formaldehyde emission class	E1 E05					EN 717-1
Mean density	620 - 600 <sup>5)</sup>	620 - 600 <sup>5)</sup>	600 - 580 <sup>5)</sup>	580 - 540 <sup>5)</sup>	kg/m <sup>3</sup>	EN 323
Bending strength - Raw core materials	10.5 <sup>5)</sup>	10.5 <sup>5)</sup>	9.5 <sup>5)</sup>	8.5 <sup>5)</sup>	N/mm <sup>2</sup>	EN 310
Modulus of elasticity (bending stiffness) - Raw core materials	1,500 <sup>5)</sup>	1,500 <sup>5)</sup>	1,350 <sup>5)</sup>	1,200 <sup>5)</sup>	N/mm <sup>2</sup>	EN 310
Internal bond - Raw core materials	0.3 <sup>5)</sup>	0.3 <sup>5)</sup>	0.25 <sup>5)</sup>	0.2 <sup>5)</sup>	N/mm <sup>2</sup>	EN 319
Surface soundness - Raw core materials	0.8 <sup>5)</sup>				N/mm <sup>2</sup>	EN 311
Durability - Water resistance	≤ 15				%	ISO 13894-1
Resistance to fixings (face)	≥ 1,500				N/mm	ISO 13894-1
Resistance to fixings (edge)	≥ 500				N/mm	ISO 13894-1
Bonding strength	≥ 0.6				N/mm <sup>2</sup>	ISO 13894-1
Flexural tensile strength	≥ 0.6				N/mm <sup>2</sup>	ISO 13894-1
Durability - Glue-line quality	≥ 3				rating	ISO 13894-1
Durability - Resistance to elevated temperature	no effect					ISO 13894-1

<sup>1)</sup> Dirt, spots and similar surface defects

<sup>2)</sup> Fibres, hairs and scratches

<sup>3)</sup> Classification VGP

<sup>4)</sup> Classification HGP

<sup>5)</sup> Core material

## Technical data

### Duropal Element P2

#### Additional information

Product standard	<ul style="list-style-type: none"> <li>EN 13894-1</li> </ul>
Areas of application	<ul style="list-style-type: none"> <li>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.</li> </ul>
Core material	<ul style="list-style-type: none"> <li>ClassicBoard P2</li> <li>Urea resin-bonded particleboard, type P2 in accordance with EN 312, suitable for non load-bearing purposes in dry areas.</li> </ul>
Product safety	<ul style="list-style-type: none"> <li>This product follows the REACH regulation EC 1907/2006 an article. Following Article 7 it does not need to be registered.</li> <li>The surface is physiologically safe, and approved for direct contact with food acc. to Regulation (EU) No. 10/2011.</li> <li>We manufacture the panels without the use of halogens, heavy metals, preservatives, wood protectors or organic solvents.</li> </ul>
Antimicrobial effect	<ul style="list-style-type: none"> <li>Surface with antimicrobial effect in 24h for interior fit-out and finishes - Test Methodology JIS Z 2801 / ISO 22196</li> </ul>
Special	<ul style="list-style-type: none"> <li>It is recommended to order overlay for horizontal, heavy used surfaces in combination with metallic designs. Slight visual difference to the surface is possible without the overlay.</li> <li>Certificate Blue Angel - Ecolabel (RAL DE-UZ 76)</li> </ul>
Note	<ul style="list-style-type: none"> <li>FSC certification or PEFC certification available on request.</li> <li>FSC license code: FSC® C011773</li> <li>PEFC license code: PEFC/04-32-0828</li> </ul>
Colour and surface match	<ul style="list-style-type: none"> <li>Decor, structure and core board all influence the final appearance of the end product.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ul>

Further information on products, formats and decor/structure combinations is available at [www.pfleiderer.com](http://www.pfleiderer.com)

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#### Pfleiderer Deutschland GmbH

Ingolstädter Str. 51  
92318 Neumarkt  
Germany

phone +49 (0) 91 81 / 28 480  
Fax +49 (0) 91 81 / 28 482  
info@pfleiderer.com  
www.pfleiderer.com