

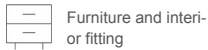
## Technical data

### Duropal Element SolidColor P2

Laminate of a particleboard core Type P2, faced on both sides with uniformed colour-through Duropal SolidColor. The durable surface and proven core material guarantee the highest quality and finish.



#### Applications



Furniture and interior fitting

#### Properties



Easy care



Antimicrobial



Food harmless

#### Certificates



Specification							Unit	Test standard
Nominal thickness	9.6	10.4	16	16.8	17.6	18.4	mm	
HPL-thickness in mm	0.8	1.2	0.8	1.2	0.8	1.2	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 438-9:2017
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 dry heat, 160 °C (textured finishes) - HPL	min. 4						rating	EN 438-9:2017
Resistance to water vapour (textured finishes) - HPL	min. 4						rating	EN 438-9:2017
Resistance to surface wear - HPL	min. 150						cycles	EN 438-9:2017
Resistance to scratching (textured finishes) - HPL	min. 3						rating	EN 438-9:2017
Resistance to impact (small diameter ball)	≥ 15						N	ISO 13894-1
Stain resistance (groups 1 & 2) - HPL	min. 5						rating	EN 438-9:2017
Stain resistance (group 3) - HPL	min. 4						rating	EN 438-9:2017
Resistance to colour change (xenon arc light) - HPL	min. 4 Grey Scale Grade <sup>3)</sup> min. 3 Grey Scale Grade <sup>4)</sup>							EN 438-9:2017
Reaction to fire	normally flammable							

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Specification							Unit	Test standard
Nominal thickness	9.6	10.4	16	16.8	17.6	18.4	mm	
HPL-thickness in mm	0.8	1.2	0.8	1.2	0.8	1.2	mm	
Reaction to fire (Euroclass)	not classified	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>	≥ 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>	1,800 <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>	0.4 <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	≥ 100	≥ 1,500	≥ 1,500	≥ 1,500	≥ 1,500	N	ISO 13894-1
Resistance to fixings (edge)	≥ 500						N	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> Texture

<sup>4)</sup> Core layers

<sup>5)</sup> Core material

Specification							Unit	Test standard
Nominal thickness	19	19.8	20.6	21.4	23.6	24.4	mm	
HPL-thickness in mm	0.8	1.2	0.8	1.2	0.8	1.2	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 438-9:2017
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 dry heat, 160 °C (textured finishes) - HPL	min. 4						rating	EN 438-9:2017
Resistance to water vapour (textured finishes) - HPL	min. 4						rating	EN 438-9:2017

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### Duropal Element SolidColor P2

Specification							Unit	Test standard
Nominal thickness	19	19.8	20.6	21.4	23.6	24.4	mm	
HPL-thickness in mm	0.8	1.2	0.8	1.2	0.8	1.2	mm	
Resistance to surface wear - HPL	min. 150						cycles	EN 438-9:2017
Resistance to scratching (textured finishes) - HPL	min. 3						rating	EN 438-9:2017
Resistance to impact (small diameter ball)	≥ 15						N	ISO 13894-1
Stain resistance (groups 1 & 2) - HPL	min. 5						rating	EN 438-9:2017
Stain resistance (group 3) - HPL	min. 4						rating	EN 438-9:2017
Resistance to colour change (xenon arc light) - HPL	min. 4 Grey Scale Grade <sup>3)</sup> min. 3 Grey Scale Grade <sup>4)</sup>							EN 438-9:2017
Reaction to fire	normally flammable							
Reaction to fire (Euroclass)	D-s2,d0							EN 13501-1, CWFT acc. to 2003/593/EG
Formaldehyde emission class	E1 E05							EN 717-1
Mean density	640 - 620 <sup>5)</sup>	640 - 620 <sup>5)</sup>	640 - 620 <sup>5)</sup>	640 - 620 <sup>5)</sup>	620 - 600 <sup>5)</sup>	620 - 600 <sup>5)</sup>	kg/m <sup>3</sup>	EN 323
Bending strength - Raw core materials	11 <sup>5)</sup>	11 <sup>5)</sup>	11 <sup>5)</sup>	11 <sup>5)</sup>	10.5 <sup>5)</sup>	10.5 <sup>5)</sup>	N/mm <sup>2</sup>	EN 310
Modulus of elasticity (bending stiffness) - Raw core materials	1,600 <sup>5)</sup>	1,600 <sup>5)</sup>	1,600 <sup>5)</sup>	1,600 <sup>5)</sup>	1,500 <sup>5)</sup>	1,500 <sup>5)</sup>	N/mm <sup>2</sup>	EN 310
Internal bond - Raw core materials	0.35 <sup>5)</sup>	0.35 <sup>5)</sup>	0.35 <sup>5)</sup>	0.35 <sup>5)</sup>	0.3 <sup>5)</sup>	0.3 <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	ISO 13894-1
Resistance to fixings (edge)	≥ 500						N	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> Texture

<sup>4)</sup> Core layers

<sup>5)</sup> Core material

Specification							Unit	Test standard
Nominal thickness	25	25.8	29.6	30.4	39.6	40.4	mm	
HPL-thickness in mm	0.8	1.2	0.8	1.2	0.8	1.2	mm	
Design front edge	not processed							
Design rear edge	not processed							
Tolerance on thickness	± 0.5						mm	ISO 13894-1

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### Duropal Element SolidColor P2

Specification							Unit	Test standard
Nominal thickness	25	25.8	29.6	30.4	39.6	40.4	mm	
HPL-thickness in mm	0.8	1.2	0.8	1.2	0.8	1.2	mm	
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 438-9:2017
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 dry heat, 160 °C (textured finishes) - HPL	min. 4						rating	EN 438-9:2017
Resistance to water vapour (textured finishes) - HPL	min. 4						rating	EN 438-9:2017
Resistance to surface wear - HPL	min. 150						cycles	EN 438-9:2017
Resistance to scratching (textured finishes) - HPL	min. 3						rating	EN 438-9:2017
Resistance to impact (small diameter ball)	≥ 15						N	ISO 13894-1
Stain resistance (groups 1 & 2) - HPL	min. 5						rating	EN 438-9:2017
Stain resistance (group 3) - HPL	min. 4						rating	EN 438-9:2017
Resistance to colour change (xenon arc light) - HPL	min. 4 Grey Scale Grade <sup>3)</sup> min. 3 Grey Scale Grade <sup>4)</sup>							EN 438-9:2017
Reaction to fire	normally flammable							
Reaction to fire (Euroclass)	D-s2,d0	D-s2,d0	not classified	not classified	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>	600 - 580 <sup>5)</sup>	580 - 540 <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>	9.5 <sup>5)</sup>	8.5 <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>	1,350 <sup>5)</sup>	1,200 <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>	0.25 <sup>5)</sup>	0.2 <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	ISO 13894-1
Resistance to fixings (edge)	≥ 500						N	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

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#### 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>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. The material is not suitable for areas subject to large fluctuations in temperature and humidity.</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> </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>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.</li> <li>Due to the through-dyed core of the material, slight colour variations to other products cannot be avoided.</li> <li>The coarser the structure and the lighter the decor, the greater the scratch resistance.</li> <li>The smoother the structure and the the darker the decor, the more sensitive it is to stains.</li> <li>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.</li> <li>The material must not be exposed to heat influences by light- or heat radiation which will increase the surface temperature to more than 50°C.</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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You can find our general terms and conditions on our webpage: [www.pfleiderer.com](http://www.pfleiderer.com)

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