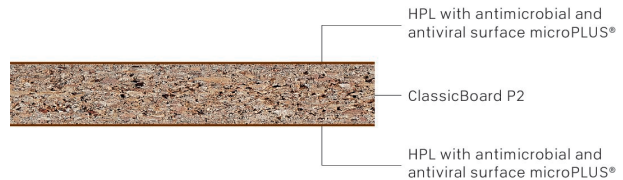


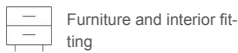
## Technical data

### Duropal Element microPLUS® P2

HPL bonded board consisting of a particleboard type P2 to EN 312, surfaced on both sides with Duropal HPL microPLUS® with an antimicrobial and antiviral surface finish (Sanitized® Silver).

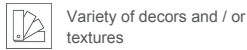


#### Applications



Furniture and interior fitting

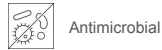
#### Properties



Variety of decors and / or textures



Easy care



Antimicrobial



Food harmless

#### Certificates



Specification									Unit	Test standard
Nominal thickness	9.6	16	17.6	19	20.6	25	29.6	39.6	mm	
HPL-thickness	0.8	0.8	0.8	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 438-2
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 (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 <sup>3)</sup> min. 150 <sup>4)</sup>								cycles	EN 438-2
Resistance to scratching (smooth finishes) – HPL	min. 1 <sup>3)</sup> min. 2 <sup>4)</sup>								rating	EN 438-2

## Technical data

### Duropal Element microPLUS® P2

Specification									Unit	Test standard
Nominal thickness	9.6	16	17.6	19	20.6	25	29.6	39.6	mm	
HPL-thickness	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	mm	
Resistance to scratching (textured finishes) – HPL	min. 2 <sup>3)</sup> min. 3 <sup>4)</sup>								rating	EN 438-2
Resistance to impact (small diameter ball)	≥ 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	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 <sup>5)</sup>	640 <sup>5)</sup>	640 <sup>5)</sup>	640 <sup>5)</sup>	620 <sup>5)</sup>	600 <sup>5)</sup>	580 <sup>5)</sup>	kg/m <sup>3</sup>	EN 323
Bending strength	11 <sup>5)</sup>	11 <sup>5)</sup>	11 <sup>5)</sup>	11 <sup>5)</sup>	11 <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)	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>	1,500 <sup>5)</sup>	1,350 <sup>5)</sup>	1,200 <sup>5)</sup>	N/mm <sup>2</sup>	EN 310
Internal bond	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>	0.3 <sup>5)</sup>	0.25 <sup>5)</sup>	0.2 <sup>5)</sup>	N/mm <sup>2</sup>	EN 319
Surface soundness	0.8 <sup>5)</sup>								N/mm <sup>2</sup>	EN 311
Durability – Water resistance	≤ 15								%	ISO 13894-1
Resistance to fixings (face)	≥ 50	≥ 600	≥ 600	≥ 600	≥ 600	≥ 600	≥ 600	≥ 600	N/mm N	ISO 13894-1
Resistance to fixings (edge)		≥ 500	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500	≥ 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> Classification VGP

<sup>4)</sup> Classification HGP

<sup>5)</sup> Core material

#### 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 CARB2</li> <li>Low emission particleboard core, 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 7 h for interior fit-out and finishes – Test Methodology JIS Z 2801 / ISO 22196</li> </ul>

## Technical data

### Duropal Element microPLUS® P2

Antiviral effect	<ul style="list-style-type: none"> <li>Surface with antiviral effect against enveloped viruses in 24 h for interior fit-out and finishes - Test Methodology ISO 21702:2019</li> </ul>
Special	<ul style="list-style-type: none"> <li>Sanitized® Silver is based on the natural effect of silver, embedded in a patented glass-ceramic. This additive is free of nanoparticles and is incorporated as a dispersion into the resin of our decor / overlay papers.</li> <li>Sanitized® Silver remains in the product and does not wash out. The effect is ensured over the whole life cycle of the product.</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)

© Copyright 2023 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](http://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](mailto:info@pfleiderer.com)  
[www.pfleiderer.com](http://www.pfleiderer.com)