DUROPAL | thermopal

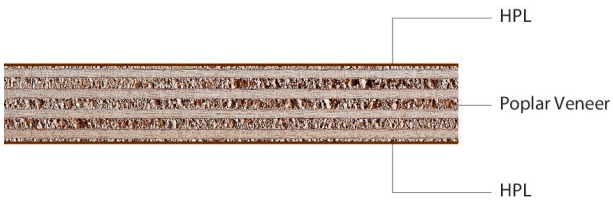
PFLEIDERER

August 2025

# Technical data

## Duropal Element Poplar Veneer

Poplar veneer panel, glued moisture-resistant, surfaced on both sides with Duropal HPL. For the highest demands on moisture resistance and stability with low weight.




### Applications

- Furniture and interior fitting
- Lightweight construction

### Properties

- Variety of decors and / or textures
- Easy care
- Antimicrobial
- Food harmless
- Load bearing – particularly high bending strength

### Certificates

CE UKCA PEFC

| Specification | | | Unit | Test standard |
|---|---|---|---|---|
| **Nominal thickness** | **16.6** | **19.6** | **mm** | |
| **HPL-thickness** | **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)]<br>max. 10 [2)] | | mm²/m²<br>mm/m² | 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 wet heat, 100 °C (other finishes) – HPL | min. 4 | | rating | EN 438-2 |
| 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 (textured finishes) – HPL | min. 3 | | 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 (Euroclass) | not classified | | | |
| Formaldehyde emission class | E1 E05 | | | EN 717-1 |

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|---|---|---|---|---|
| **Nominal thickness** | **16.6** | **19.6** | **mm** | |
| **HPL-thickness** | **0.8** | **0.8** | **mm** | |
| Mean density | 450 [3] | | kg/m³ | EN 323 |
| Bending strength | 35 [3] | | N/mm² | EN 310 |
| Modulus of elasticity (bending stiffness) | 3,500 [3] | | N/mm² | EN 310 |
| Internal bond | 0.8 [3] | | N/mm² | EN 319 |
| Resistance to fixings (face) | ≥ 1,200 | | N | ISO 13894-1 |
| Resistance to fixings (edge) | ≥ 1,000 | | N | ISO 13894-1 |
| Bonding strength | ≥ 1.3 | | N/mm² | ISO 13894-1 |
| Flexural tensile strength | ≥ 1.3 | | N/mm² | ISO 13894-1 |
| Durability – Glue-line quality | 5 | | 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] Core material

### Additional information

| | |
|---|---|
| Product standard | • in accordance with EN 13894-1 |
| Areas of application | • For high demands on the board material for interior design, particularly for bending: In library, shop and chemist fitting, for the office furniture sector, especially suitable for filing cabinets, shelving, showcases, etc. |
| Core material | • PremiumBoard Poplar Veneer<br>• Veneer panel made from poplar plywood, AW 100 glued for a particularly high resistance to humidity. Technical values to EN 636. |
| Product safety | • This product follows the REACH regulation EC 1907/2006 an article. Following Article 7 it does not need to be registered.<br>• The surface is physiologically safe, and approved for direct contact with food acc. to Regulation (EU) No. 10/2011.<br>• 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.<br>• We manufacture the panels without the use of organohalogens, heavy metals, preservatives, wood protectors or organic solvents. |

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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 coarser the structure and the lighter the decor, the greater the scratch resistance.<br>• 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.<br>• 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.<br>• 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.<br>• By some decor/texture combinations a slight surface disruption may be visible. This is due to the construction of the core material and is not indicative of a quality fault.<br>• 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 | • PEFC-certification available on request.<br>• 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.<br>• 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.<br>• 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.<br>• 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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