

Technical data

Duropal Element Birch Multiplex

Birch veneer panel, glued moisture-resistant, faced on both sides with Duropal HPL. This flat bonded element guarantees the highest stability and material quality.

Applications



Furniture and interior fitting

Properties



Decorative variety



Easy care



Antimicrobial



Food harmless



Load bearing – particularly high bending strength



Certificates



Specification			Unit	Test standard
Nominal thickness	19.6	28.6	mm	
HPL-thickness in mm	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 438-3:2016
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 ³⁾ min. 150 ⁴⁾		cycles	EN 438-2:2016
Resistance to scratching (smooth finishes) - HPL	min. 1 ³⁾ min. 2 ⁴⁾		rating	EN 438-2:2016

Technical data

Duropal Element Birch Multiplex

Specification			Unit	Test standard
Nominal thickness	19.6	28.6	mm	
HPL-thickness in mm	0.8	0.8	mm	
Resistance to scratching (textured finishes) - HPL	min. 2 ³⁾ min. 3 ⁴⁾		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			EN 13501-1, CWFT acc. to 2003/593/EG
Formaldehyde emission class	E1 E05			EN 717-1
Mean density	720 ⁵⁾		kg/m ³	EN 323
Bending strength - Raw core materials	≥ 60 ⁵⁾	≥ 40 ⁵⁾	N/mm ²	EN 310
Modulus of elasticity (bending stiffness) - Raw core materials	≥ 6,000 ⁵⁾		N/mm ² kg/cm ²	EN 310
Internal bond - Raw core materials	≥ 0.8 ⁵⁾		N/mm ² kg/cm ²	EN 319
Durability - Water resistance	≤ 10		%	ISO 13894-1
Resistance to fixings (face)	≥ 1,800		N	ISO 13894-1
Resistance to fixings (edge)	≥ 2,000		N	ISO 13894-1
Bonding strength	≥ 1.7		N/mm ²	ISO 13894-1
Flexural tensile strength	≥ 1.7		N/mm ²	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⁾ Classification VGP

⁴⁾ Classification HGP

⁵⁾ Core material

Additional information

Product standard	<ul style="list-style-type: none"> EN 13894-1
Areas of application	<ul style="list-style-type: none"> High-quality furniture and installations on which high static demands are made: Shop fitting, discerning interior design, library, shop and chemist fitting and in the office furniture sector.
Product safety	<ul style="list-style-type: none"> 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.

Technical data

Duropal Element Birch Multiplex

Antimicrobial effect	<ul style="list-style-type: none"> Surface with antimicrobial effect in 24h for interior fit-out and finishes - Test Methodology JIS Z 2801 / ISO 22196
Special	<ul style="list-style-type: none"> 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.
Note	<ul style="list-style-type: none"> FSC-certification available on request. FSC license code: FSC® C011773
Colour and surface match	<ul style="list-style-type: none"> 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

© Copyright 2021 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