DUROPAL | thermopal

PFLEIDERER

October 2025

Technical data

Duropal Element XTreme P2

HPL bonded board consisting of a particleboard type P2 conforming to EN 312, surfaced on both sides with Duropal XTreme, an attractive supermatt surface material with an anti-fingerprint effect.

Applications

Furniture and interior fitting

Properties

Variety of decors and / or textures

Easy care

Anti-fingerprint

Food harmless

Particularly low emission

Certificates

Specification						Unit	Test standard
Nominal thickness	**9.6**	**16**	**17.6**	**19**	**20.6**	**mm**	
HPL-thickness	**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 [1)] max. 10 [2)]					mm²/m² 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	max. 2	max. 2	max. 2	mm/m	ISO 13894-1
Flatness (width)	-	max. 2	max. 2	max. 2	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 (smooth finishes) – HPL	min. 3					rating	EN 438-2
Resistance to impact (small diameter ball)	min. 15 [3)]					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						

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
www.pfleiderer.com

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Specification						Unit	Test standard
Nominal thickness	**9.6**	**16**	**17.6**	**19**	**20.6**	**mm**	
HPL-thickness	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**mm**	
Reaction to fire (Euroclass)	not classified	D-s2,d0	D-s2,d0	D-s2,d0	D-s2,d0		EN 13501-1, CWFT conforming to 2003/593/EG
Formaldehyde emission class	E1 E05 TSCA Title VI						EN 717-1
Mean density	≥ 720 [4]	670 - 650 [4]	670 - 650 [4]	670 - 650 [4]	670 - 650 [4]	kg/m³	EN 323
Bending strength	11 [4]					N/mm²	EN 310
Modulus of elasticity (bending stiffness)	1,800 [4]	1,600 [4]	1,600 [4]	1,600 [4]	1,600 [4]	N/mm²	EN 310
Internal bond	0.4 [4]	0.35 [4]	0.35 [4]	0.35 [4]	0.35 [4]	N/mm²	EN 319
Resistance to fixings (face)	≥ 40	≥ 600	≥ 600	≥ 600	≥ 600	N/mm N	ISO 13894-1
Resistance to fixings (edge)	-	≥ 350	≥ 350	≥ 350	≥ 350	N	ISO 13894-1
Bonding strength	≥ 0.6					N/mm²	ISO 13894-1
Flexural tensile strength	≥ 0.6					N/mm²	ISO 13894-1
Durability – Glue-line quality	≥ 3					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] No surface damage according to the standard, optical change of the surface (>10 N) possible
[4] Core material

Specification					Unit	Test standard
Nominal thickness	**23.6**	**25**	**29.6**	**39.6**	**mm**	
HPL-thickness	**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 [1] max. 10 [2]				mm²/m² 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 (smooth finishes) – HPL	min. 3				rating	EN 438-2

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Specification					Unit	Test standard
Nominal thickness	**23.6**	**25**	**29.6**	**39.6**	**mm**	
HPL-thickness	**0.8**	**0.8**	**0.8**	**0.8**	**mm**	
Resistance to impact (small diameter ball)	min. 15 [3]				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	not classified	not classified		EN 13501-1, CWFT conforming to 2003/593/EG
Formaldehyde emission class	E1 E05 TSCA Title VI					EN 717-1
Mean density	630 - 610 [4]	630 - 610 [4]	600 - 580 [4]	580 - 540 [4]	kg/m³	EN 323
Bending strength	10.5 [4]	10.5 [4]	9.5 [4]	8.5 [4]	N/mm²	EN 310
Modulus of elasticity (bending stiffness)	1,500 [4]	1,500 [4]	1,350 [4]	1,200 [4]	N/mm²	EN 310
Internal bond	0.3 [4]	0.3 [4]	0.25 [4]	0.2 [4]	N/mm²	EN 319
Resistance to fixings (face)	≥ 600				N/mm N	ISO 13894-1
Resistance to fixings (edge)	≥ 350				N	ISO 13894-1
Bonding strength	≥ 0.6				N/mm²	ISO 13894-1
Flexural tensile strength	≥ 0.6				N/mm²	ISO 13894-1
Durability – Glue-line quality	≥ 3				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] No surface damage according to the standard, optical change of the surface (>10 N) possible
[4] Core material

Additional information

Product standard	• in accordance with EN 13894-2
Areas of application	• 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.
Core material	• ClassicBoard P2 • Urea resin-bonded particleboard, type P2 conforming to EN 312, suitable for non load-bearing purposes in dry areas.

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Product safety	• 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. • We manufacture the panels without the use of organohalogens, heavy metals, preservatives, wood protectors or organic solvents.
Special	• The smoother the structure and the the darker the decor, the more sensitive it is to stains. • Due to a low orientation of the lacquered surface the field of application, the conditions of lighting and the decor may cause certain optical effects. This is a result of the production methods and does not constitute a quality defect. • 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. • 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. • To avoid any possible aesthetic and optical impairments, the orientation of the boards specified on the protection film of the product must strictly be followed, especially for large-surface applications. • XTreme Semi Matt doesn‘t prevent scratches, but allows horizontal application! • 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	• FSC certification or PEFC certification available on request. • FSC license code: FSC® C011773 • 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. • 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

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