DUROPAL | thermopal

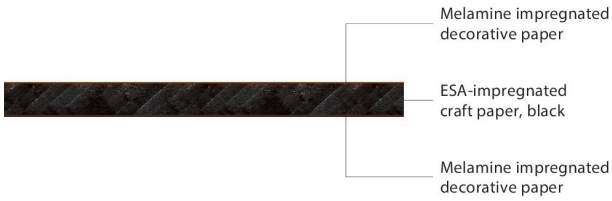
PFLEIDERER

January 2026

Technical data

Duropal HPL Compact ESA, black core

Electrostatically dissipative compact high-pressure laminate in accordance with EN 438-4:CGS, suitable for dry areas. With uniform black-coloured core and decorative melamine resin surface on both sides.



Applications

Furniture and interior fitting

Properties

Easy care

Antimicrobial

Food harmless

Electrostatically dissipative

High impact resistance

Certificates

Specification									Unit	Test standard
Nominal thickness	**2**	**3**	**4**	**5**	**6**	**8**	**10**	**12**	**mm**	
Tolerance on thickness	± 0.2	± 0.3	± 0.3	± 0.4	± 0.4	± 0.5	± 0.5	± 0.6	mm	EN 438-2
Tolerance on length	+ 10								mm	EN 438-2
Tolerance on width	+ 10								mm	EN 438-2
Surface defects	max. 1 [1)] max. 10 [2)]								mm²/m² mm/m²	EN 438-2
Edge defects	max. 3								mm	EN 438-2
Straightness of edges	max. 1.5								mm/m	EN 438-2
Squareness	max. 1.5								mm/m	EN 438-2
Flatness	max. 8	max. 8	max. 8	max. 8	max. 5	max. 5	max. 3	max. 3	mm/m	EN 438-2
Density	min. 1,350								kg/m³	EN ISO 1183-1
Bending strength	min. 80								MPa	EN ISO 178
Flexural modulus	min. 9,000								MPa	EN ISO 178
Resistance to crazing	min. 4								rating	EN 438-2
Dimensional stability at elevated temperature (length)	max. 0.4	max. 0.4	max. 0.4	max. 0.3	max. 0.3	max. 0.3	max. 0.3	max. 0.3	%	EN 438-2
Dimensional stability at elevated temperature (width)	max. 0.8	max. 0.8	max. 0.8	max. 0.6	max. 0.6	max. 0.6	max. 0.6	max. 0.6	%	EN 438-2
Resistance to dry heat, 160 °C (other finishes)	min. 4								rating	EN 438-2
Resistance to surface wear	min. 150								cycles	EN 438-2
Resistance to scratching (textured finishes)	min. 3								rating	EN 438-2
Resistance to impact by large diameter ball – impression diameter	max. 10								mm	EN 438-2
Resistance to impact by large diameter ball – Fall height	min. 1,400	min. 1,400	min. 1,400	min. 1,400	min. 1,800	min. 1,800	min. 1,800	min. 1,800	mm	EN 438-2
Stain resistance (groups 1 & 2)	min. 5								rating	EN 438-2
Stain resistance (group 3)	min. 4								rating	EN 438-2

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Specification									Unit	Test standard
Nominal thickness	**2**	**3**	**4**	**5**	**6**	**8**	**10**	**12**	**mm**	
Resistance to colour change (xenon arc light)	4 to 5 Grey Scale Grade									EN 438-2
Reaction to fire	normally flammable									
Reaction to fire (Euroclass)	not classified	not classified	not classified	not classified	D-s2,d0	D-s2,d0	D-s2,d0	D-s2,d0		EN 13501-1, CWFT conforming to 2003/593/EG
Volume resistance R_D	1×10^4–1×10^9 Ohm [3]									EN 61340-5-1
Formaldehyde emission class	E1 E05									EN 717-1

[1] Dirt, spots and similar surface defects
[2] Fibres, hairs and scratches
[3] measured dry, measurement voltage 100 V DC, cylindrical electrode, 20–30 °C and 20–50 % rel. humidity (96 h conditioning)

Specification								Unit	Test standard
Nominal thickness	**13**	**15**	**16**	**17**	**18**	**19**	**20**	**mm**	
Tolerance on thickness	± 0.6	± 0.6	± 0.7	± 0.7	± 0.7	± 0.7	± 0.8	mm	EN 438-2
Tolerance on length	+ 10							mm	EN 438-2
Tolerance on width	+ 10							mm	EN 438-2
Surface defects	max. 1 [1] max. 10 [2]							mm²/m² mm/m²	EN 438-2
Edge defects	max. 3							mm	EN 438-2
Straightness of edges	max. 1.5							mm/m	EN 438-2
Squareness	max. 1.5							mm/m	EN 438-2
Flatness	max. 3							mm/m	EN 438-2
Density	min. 1,350							kg/m³	EN ISO 1183-1
Bending strength	min. 80							MPa	EN ISO 178
Flexural modulus	min. 9,000							MPa	EN ISO 178
Resistance to crazing	min. 4							rating	EN 438-2
Dimensional stability at elevated temperature (length)	max. 0.3							%	EN 438-2
Dimensional stability at elevated temperature (width)	max. 0.6							%	EN 438-2
Resistance to dry heat, 160 °C (other finishes)	min. 4							rating	EN 438-2
Resistance to surface wear	min. 150							cycles	EN 438-2
Resistance to scratching (textured finishes)	min. 3							rating	EN 438-2
Resistance to impact by large diameter ball – impression diameter	max. 10							mm	EN 438-2
Resistance to impact by large diameter ball – Fall height	min. 1,800							mm	EN 438-2
Stain resistance (groups 1 & 2)	min. 5							rating	EN 438-2
Stain resistance (group 3)	min. 4							rating	EN 438-2
Resistance to colour change (xenon arc light)	4 to 5 Grey Scale Grade								EN 438-2

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Nominal thickness	**13**	**15**	**16**	**17**	**18**	**19**	**20**	**mm**	
Reaction to fire	normally flammable								
Reaction to fire (Euroclass)	D-s2,d0								EN 13501-1, CWFT conforming to 2003/593/EG
Volume resistance R_D	1×10^4–1×10^9 Ohm [3]								EN 61340-5-1
Formaldehyde emission class	E1 E05								EN 717-1

[1] Dirt, spots and similar surface defects
[2] Fibres, hairs and scratches
[3] measured dry, measurement voltage 100 V DC, cylindrical electrode, 20–30 °C and 20–50 % rel. humidity (96 h conditioning)

Additional information

Product standard	• in accordance with EN 438-4
Areas of application	• The products from our ESA system are indispensable wherever electrostatic charges are to be prevented. The conductive constituents in the core plate and facing ensure a reliable and simple earthing possibility for furniture components and worktops in ESD areas, on production and assembly lines, in laboratories or central control rooms.
Core material	• Electrostatically dissipative compact laminate black • Electrostatically dissipative uniform black through-pigmented solid compact laminate core, impact resistant for applications with high specification demands.
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. • 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.
Antimicrobial effect	• Surface with antimicrobial effect in 24 h for interior fit-out and finishes – Test Methodology JIS Z 2801 / ISO 22196

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Special	• The coarser the structure and the lighter the decor, the greater the scratch resistance. • 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. • Due to the black core of the material, minor decorative deviations to other products cannot be avoided. • For production-related reasons, there may be minor colour variations in the black material core. • Decor-structure-combination front side = Decor-structure-combination reverse side • Subsequent oiling (with suitable cooking oil) of the machined edge can reduce machining and wear marks. • Please note that in everyday use, polishing, scratches and shiny spots may occur due to mechanical stress, which are particularly visible on darker decors. This does not represent a quality defect or a restriction of usability. Rather, it reflects the natural ageing of the surface. The product complies with all requirements of EN 438. • Decors: W10140 Frontal White / U12188 Light Grey
Note	• FSC certification or PEFC certification available on request. • FSC license code: FSC® C011773 • PEFC license code: PEFC/04-32-0828
Processing instructions	• 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. • Can be worked with carbide tipped tools on conventional woodworking machines. • Basically, there is no conductive edging material
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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