

Technical data

Duropal HPL Compact Pyroex, black core

Compact high-pressure laminate in flame retardant quality according to EN 438-4:CGF. With uniform black-coloured core and decorative melamine resin surface on both sides.

Applications



Furniture and interior fitting



Fire protection

Properties



Variety of decors and / or textures



Easy care



Antimicrobial



Food harmless



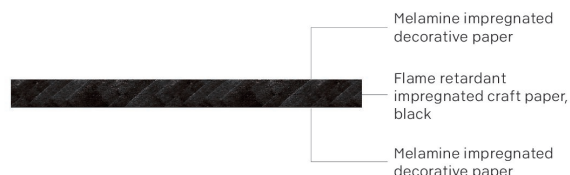
Low swelling / moisture resistant



Flame retardant



High impact resistance



Certificates



Specification							Unit	Test standard
Nominal thickness	4	5	6	8	10	12	mm	
Tolerance on thickness	± 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⁾						mm ² /m ² mm/m ²	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. 5	max. 5	max. 3	max. 3	mm/m	EN 438-2
Density	min. 1,350						kg/m ³	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. 0.3	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. 0.6	max. 0.6	max. 0.6	max. 0.6	max. 0.6	%	EN 438-2
Resistance to wet heat, 100 °C (gloss finishes)	min. 3						rating	EN 438-2
Resistance to wet heat, 100 °C (other finishes)	min. 4						rating	EN 438-2
Resistance to dry heat, 160 °C (gloss finishes)	min. 3						rating	EN 438-2
Resistance to dry heat, 160 °C (other finishes)	min. 4						rating	EN 438-2
Resistance to water vapour (gloss finishes)	min. 3						rating	EN 438-2
Resistance to water vapour (other finishes)	min. 4						rating	EN 438-2

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Specification							Unit	Test standard
Nominal thickness	4	5	6	8	10	12	mm	
Resistance to immersion in boiling water (gloss finishes)	min. 3						rating	EN 438-2
Resistance to immersion in boiling water (other finishes)	min. 4						rating	EN 438-2
Resistance to immersion in boiling water (edge)	min. 3						rating	EN 438-2
Resistance to immersion in boiling water	max. 7 ³⁾ max. 9 ⁴⁾	max. 3 ³⁾ max. 6 ⁴⁾	max. 3 ³⁾ max. 6 ⁴⁾	max. 3 ³⁾ max. 6 ⁴⁾	max. 3 ³⁾ max. 6 ⁴⁾	max. 3 ³⁾ max. 6 ⁴⁾	%	EN 438-2
Resistance to surface wear	min. 150						cycles	EN 438-2
Resistance to scratching (smooth finishes)	min. 2						rating	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. 1,800	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
Resistance to colour change (xenon arc light)	4 to 5 Grey Scale Grade							EN 438-2
Reaction to fire	flame retardant							
Reaction to fire (Euroclass)	C-s2,d0	C-s2,d0	C-s2,d0	B-s1,d0	B-s1,d0	B-s1,d0		EN 13501-1
Formaldehyde emission class	E1 E05							EN 717-1

¹⁾ Dirt, spots and similar surface defects

²⁾ Fibres, hairs and scratches

³⁾ Mass increase

⁴⁾ Thickness increase

Specification							Unit	Test standard
Nominal thickness	13	15	16	17	19	20	mm	
Tolerance on thickness	± 0.6	± 0.6	± 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⁾						mm ² /m ² mm/m ²	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/m ³	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

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Specification							Unit	Test standard
Nominal thickness	13	15	16	17	19	20	mm	
Resistance to wet heat, 100 °C (gloss finishes)			min. 3				rating	EN 438-2
Resistance to wet heat, 100 °C (other finishes)			min. 4				rating	EN 438-2
Resistance to dry heat, 160 °C (gloss finishes)			min. 3				rating	EN 438-2
Resistance to dry heat, 160 °C (other finishes)			min. 4				rating	EN 438-2
Resistance to water vapour (gloss finishes)			min. 3				rating	EN 438-2
Resistance to water vapour (other finishes)			min. 4				rating	EN 438-2
Resistance to immersion in boiling water (gloss finishes)			min. 3				rating	EN 438-2
Resistance to immersion in boiling water (other finishes)			min. 4				rating	EN 438-2
Resistance to immersion in boiling water (edge)			min. 3				rating	EN 438-2
Resistance to immersion in boiling water			max. 3 ³⁾ max. 6 ⁴⁾				%	EN 438-2
Resistance to surface wear			min. 150				cycles	EN 438-2
Resistance to scratching (smooth finishes)			min. 2				rating	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
Reaction to fire			flame retardant					
Reaction to fire (Euroclass)			B-s1,d0					EN 13501-1
Formaldehyde emission class			E1 E05					EN 717-1

¹⁾ Dirt, spots and similar surface defects

²⁾ Fibres, hairs and scratches

³⁾ Mass increase

⁴⁾ Thickness increase

Additional information

Product standard	EN 438-4
Areas of application	Wherever high demands are made on quality and durability in addition to preventive fire protection in decorative interior design. For wall coverings, installations and interior furnishing in industrial, sales and administration buildings, in recreational facilities and public areas, such as schools, sports and festival halls, cinemas, discotheques, hotels, hospitals and care home facilities.
Core material	- Flame retardant compact laminate black - Uniform black through-pigmented solid compact laminate core, suitable for applications with high requirements for the surface spread of flame.

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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. - 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
Special	- The coarser the structure and the lighter the decor, the greater the scratch resistance. - The smoother the structure and the the darker the decor, the more sensitive it is to stains. - 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. - 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. - 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. - The thicknesses of 16–20 mm are available in the format 2,800 x 2,070 mm.
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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