

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.

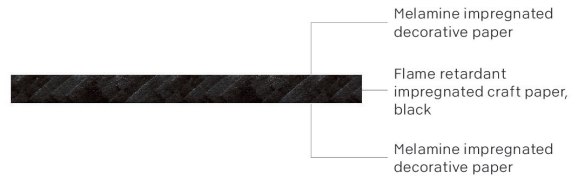
Applications



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 | 13 | 15 | mm | |
| Tolerance on thickness | ± 0.3 | ± 0.4 | ± 0.4 | ± 0.5 | ± 0.5 | ± 0.6 | ± 0.6 | ± 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 | 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 | 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 | 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 |

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|---|-------------------------|------------|------------|------------|------------|------------|------------|------------|--------|---------------|
| Nominal thickness | 4 | 5 | 6 | 8 | 10 | 12 | 13 | 15 | mm | |
| 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 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 | 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 grade | | | | | | | | | |
| Reaction to fire (Euroclass) | C-s2,d0 | C-s2,d0 | C-s2,d0 | B-s1,d0 | B-s1,d0 | B-s1,d0 | B-s1,d0 | B-s1,d0 | | EN 13501-1 |
| Formaldehyde emission class | E1 | | | | | | | | | EN 717-1 |

¹⁾ Dirt, spots and similar surface defects

²⁾ Fibres, hairs and scratches

Additional information

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|----------------------|--|
| Product standard | <ul style="list-style-type: none"> EN 438-4 |
| Areas of application | <ul style="list-style-type: none"> Preventive fire protection in interior design, for damp and wet areas and wherever outstanding durability of the material is demanded, e.g. as wall protection. Also for furniture and installation elements, particularly when low material cross-sections or open edge solutions are required as part of fire protection concepts. |
| Core material | <ul style="list-style-type: none"> Flame retardant compact laminate black core Uniform black through-pigmented solid compact laminate core, suitable for applications with high requirements for the surface spread of flame. |
| 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. 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. |

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|--------------------------|---|
| Antimicrobial effect | <ul style="list-style-type: none"> Surface with antimicrobial effect in 24 h for interior fit-out and finishes – Test Methodology JIS Z 2801 / ISO 22196 |
| Special | <ul style="list-style-type: none"> 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. 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. For production-related reasons, there may be minor colour variations in the black material core. Due to the black core of the material, minor decorative deviations to other products cannot be avoided. 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. |
| Note | <ul style="list-style-type: none"> FSC certification or PEFC certification available on request. FSC license code: FSC® C011773 PEFC license code: PEFC/04-32-0828 |
| 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

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