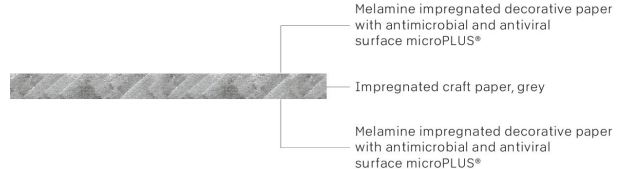


Technical data

Duropal HPL Compact microPLUS®, grey core

Compact high-pressure laminate in standard quality conforming to EN 438-9:BCS. With uniform grey-coloured core, decorative melamine resin surface on both sides and an antimicrobial as well as antiviral surface finish (Sanitized® Silver).



Applications



Furniture and interior fitting

Properties



Variety of decors and / or textures



Easy care



Antimicrobial



Food harmless



High impact resistance

Certificates



Specification					Unit	Test standard
Nominal thickness	6	8	10	12	mm	
Tolerance on thickness	± 0.5	± 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. 8	max. 8	max. 5	max. 5	mm/m	EN 438-2
Density		min. 1,400			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. 3 ³⁾ min. 4 ⁴⁾			rating	EN 438-2
Dimensional stability at elevated temperature (length)		max. 0.5			%	EN 438-2
Dimensional stability at elevated temperature (width)		max. 0.8			%	EN 438-2
Resistance to dry heat, 160 °C (other finishes)		min. 4			rating	EN 438-2
Resistance to water vapour (other finishes)		min. 4			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

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Specification	6	8	10	12	Unit	Test standard
Nominal thickness					mm	
Resistance to immersion in boiling water			max. 3 ⁵⁾ max. 4 ⁶⁾		%	EN 438-2
Resistance to surface wear		min. 150			cycles	EN 438-2
Resistance to scratching (other finishes)		min. 3			rating	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)		min. 4 Grey Scale Grade ⁴⁾ min. 3 Grey Scale Grade ³⁾				EN 438-2
Reaction to fire		normally flammable				
Reaction to fire (Euroclass)		D-s2,d0				EN 13501-1, CWFT conforming to 2003/593/EG
Formaldehyde emission class		E1 E05				EN 717-1

¹⁾ Dirt, spots and similar surface defects

²⁾ Fibres, hairs and scratches

³⁾ Edge/Core

⁴⁾ Texture

⁵⁾ Mass increase

⁶⁾ Thickness increase

Additional information

Product standard	<ul style="list-style-type: none"> EN 438-9
Areas of application	<ul style="list-style-type: none"> For unusual furniture and interior concepts in the home and contract sectors, in leisure and spa facilities, in shop design as well as in catering in which particular robustness, durability and high hygienic standards including aesthetics are required of the material. The material is suitable for open edge solutions as well as for engraving for individual 3D effects.
Core material	<ul style="list-style-type: none"> Compact laminate grey Uniform grey through-pigmented solid compact laminate core, impact resistant for applications with high specification demands.
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.
Antimicrobial effect	<ul style="list-style-type: none"> Surface with antimicrobial effect in 7 h for interior fit-out and finishes – Test Methodology JIS Z 2801 / ISO 22196

Technical data

Duropal HPL Compact microPLUS®, grey core

Antiviral effect	<ul style="list-style-type: none"> Surface with antiviral effect against enveloped viruses in 24 h for interior fit-out and finishes - Test Methodology ISO 21702:2019
Special	<ul style="list-style-type: none"> 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. Sanitized® Silver is based on the natural effect of silver, embedded in a patented glass-ceramic. This additive is free of nanoparticles and is incorporated as a dispersion into the resin of our decor / overlay papers. Sanitized® Silver remains in the product and does not wash out. The effect is ensured over the whole life cycle of the product. Core colour: similar U12188 Due to the grey 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 grey material core. Due to the material core, Duropal HPL Compact microPLUS® with a grey core are slightly harder and more brittle than Compact Worktops with a black material core. These will tend to warp more severely in case of climatic fluctuations. The uneven edge appearance is due to the structure depth of the texture Solid Granite caused by the product and does not represent a quality defect. 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.
Note	<ul style="list-style-type: none"> With PEFC-certification. 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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