

Technical data

Duropal HPL

Decorative high pressure laminate in postforming quality according to EN 438-3:HGP/VGP, with robust melamine resin surface and sanded reverse.

Melamine impregnated decorative paper

Impregnated craft paper, reverse side sanded

| Specification | | | | | | Unit | Standard |
|--|-------|-------|--|-------|--------|--|---------------|
| Nominal thickness | 0.5 | 0.6 | 0.8 | 1 | 1.2 | mm | |
| Tolerance on thickness | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.1 | ± 0.15 | mm | EN 438-2:2016 |
| Tolerance on length | | | + 10 | | | mm | EN 438-2:2016 |
| Tolerance on width | | | + 10 | | | mm | EN 438-2:2016 |
| Surface defects | | | max. 1 ¹⁾ max. 10 ²⁾ | | | mm ² /m ² mm/m ² | EN 438-3:2016 |
| Edge defects | | | max. 20 | | | mm | EN 438-3:2016 |
| Straightness of edges | | | max. 1.5 | | | mm/m | EN 438-2:2016 |
| Squareness | | | max. 1.5 | | | mm/m | EN 438-2:2016 |
| Flatness | | | max. 60 | | | mm/m | EN 438-2:2016 |
| Density | | | min. 1,350 | | | kg/m ³ | EN ISO 1183-1 |
| Dimensional stability at elevated temperature (length) | | | max. 0.55 ³⁾ max. 0.75 ⁴⁾ | | | % | EN 438-2:2016 |
| Dimensional stability at elevated temperature (width) | | | max. 1.05 ³⁾ min. 1.25 ⁴⁾ | | | % | EN 438-2:2016 |
| Resistance to wet heat, 100 °C (smooth finishes) | | | min. 3 | | | rating | EN 438-2:2016 |
| Resistance to wet heat, 100 °C (textured finishes) | | | min. 4 | | | rating | EN 438-2:2016 |
| Resistance to dry heat, 160 °C (smooth finishes) | | | min. 3 | | | rating | EN 438-2:2016 |
| Resistance to dry heat, 160 °C (textured finishes) | | | min. 4 | | | rating | EN 438-2:2016 |
| Resistance to water vapour (smooth finishes) | | | min. 3 | | | rating | EN 438-2:2016 |
| Resistance to water vapour (textured finishes) | | | min. 4 | | | rating | EN 438-2:2016 |
| Resistance to immersion in boiling water (smooth finishes) | | | min. 3 | | | rating | EN 438-2:2016 |
| Resistance to immersion in boiling water (textured finishes) | | | min. 4 | | | rating | EN 438-2:2016 |
| Resistance to surface wear | | | min. 50 ⁴⁾ min. 150 ³⁾ | | | cycles | EN 438-2:2016 |
| Resistance to scratching (smooth finishes) | | | min. 1 ⁴⁾ min. 2 ³⁾ | | | rating | EN 438-2:2016 |
| Resistance to scratching (textured finishes) | | | min. 2 ⁴⁾ min. 3 ³⁾ | | | rating | EN 438-2:2016 |
| Resistance to impact (small diameter ball) | | | min. 15 ⁴⁾ min. 20 ³⁾ | | | N | EN 438-2:2016 |
| Stain resistance (groups 1 & 2) | | | min. 5 | | | rating | EN 438-2:2016 |
| Stain resistance (group 3) | | | min. 4 | | | rating | EN 438-2:2016 |
| Light fastness (xenon arc) | | | 4 to 5 grey scale rating | | | | EN 438-2:2016 |
| Fire behavior | | | normally flammable | | | | |

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|------------------------------|--|-----|-----|---|-----|------|--------------------------------------|
| Nominal thickness | 0.5 | 0.6 | 0.8 | 1 | 1.2 | mm | |
| Reaction to fire (Euroclass) | Euroclass D-s2,d0 or worse in connection with normally and easily inflammable core boards. | | | | | | EN 13501-1, CWFT acc. to 2003/593/EG |
| Formaldehyde emission class | E1 | | | | | | EN 717-1 |
| Formability (length) | min. 10 x t ⁵⁾ | | | | | | EN 438-2:2016 |
| Formability (width) | Not determined, processing tests are to be carried out. | | | | | | EN 438-2:2016 |

¹⁾ Dirt, spots and similar surface defects

²⁾ Fibres, hairs and scratches

³⁾ Classification HGP

⁴⁾ Classification VGP

⁵⁾ t = nominal thickness

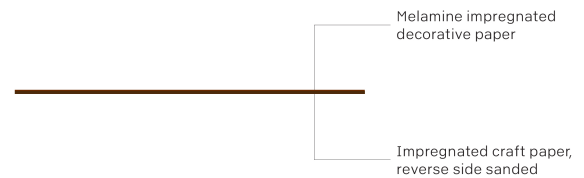
Additional information

| | |
|----------------------|---|
| Product standard | <ul style="list-style-type: none"> EN 438-3 |
| Areas of application | <ul style="list-style-type: none"> Surface material for high-quality kitchen and office furniture, for walls and doors, furniture and installations in retail and recreational facilities, in the restaurant sector, in administration buildings, day nurseries, schools, sanitary, clinical or laboratory sectors. Particularly where high demands are made on sturdiness, ease of care and hygiene. |
| Product safety | <ul style="list-style-type: none"> 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 that 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. We manufacture the panels without the use of halogens, heavy metals, preservatives, wood protectors or organic solvents. This product is following the REACH regulation EC 1907/2006 an article. Following Article 7 it needs not to be registered. |
| Special | <ul style="list-style-type: none"> FSC®-certification (license code: FSC-C011773) or PEFC-certification (license code: PEFC/04-32-0828) - available on request. Also in anti-bacterial quality – with Duropal microPLUS®. The coarser the structure and the lighter the decor, the greater the scratch resistance. The smoother the structure and the darker the decor, the more sensitive it gets to stains. Depending on the decor and surface texture, slightly different surface visual impressions can result between format boards 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 homogeneity of the boards and cut products used when further processing and installing and that the material is used taking into account the production direction. |
| Note | <ul style="list-style-type: none"> Classification HGP / HGF is achieved with the surface textures recommended for horizontal applications. Requirements of classification VGP / VGF are met by all surface textures. Please refer to our sales documentation, to check which textures are available for this product. |

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