



NEROPAN COMPACT HPL TECHNICAL DATA SHEET

| PRODUCT NAME / DESCRIPTION | | COMPACT HIGH PRESSURE LAMINATES (CGS), THICK 2MM AND ABOVE | |
|--|-------------|--|--|
| ORIGIN | | KINGDOM OF SAUDI ARABIA | |
| BRAND NAME | | NEROPAN |  |
| PROPERTY | TEST METHOD | UNITS | RESULTS |
| Thickness | EN 438-2-5 | mm | $3.0 \leq t < 5.0: \pm 0.30\text{mm}$ $5.0 \leq t < 8.0: \pm 0.40\text{mm}$ $8.0 \leq t < 12.0: \pm 0.50\text{mm}$ $12.0 \leq t < 16.0: \pm 0.60\text{mm}$ $16.0 \leq t < 20.0: \pm 0.70\text{mm}$ $20.0 \leq t < 25.0: \pm 0.80\text{mm}$ $t \geq 25.0: \text{to be agreed with customer}$ (t = nominal thickness) |
| Length and Width | EN 438-2-6 | mm | + 10mm / - 0mm |
| Edges Straightness | EN 438-2-7 | mm/m | 1.5mm/m maximum deviation |
| Edges Squareness | EN 438-2-8 | mm/m | 1.5mm/m maximum deviation |
| Flatness | EN 438-2-9 | mm/m | $2.0 \leq t < 6.0\text{mm}: \pm 8.0\text{mm/m}$ maximum deviation $6.0 \leq t < 10.0\text{mm}: \pm 5.0\text{mm/m}$ maximum deviation $t \geq 10.0\text{mm}: \pm 3.0\text{mm/m}$ maximum deviation |
| Resistance to Surface Wear | EN 438-2-10 | Revolutions (min) | Initial Point: 150 |
| Resistance to Immersion in Boiling Water | EN 438-2-12 | Rating (min) Appearance | Surface Gloss Finish: 3 |
| | | | Surface Other Finishes: 4 |
| | | | Edge: 3 |
| Resistance to Water Vapor | EN 438-2-14 | Rating (min) Appearance | Gloss Finish: 3 |
| | | | Other Finishes: 4 |
| Resistance to Dry Heat (160°C) | EN 438-2-16 | Rating (min) Appearance | Gloss Finish: 3 |
| | | | Other Finishes: 4 |
| Dimensional Stability at Elevated Temperature | EN 438-2-17 | % (max) $2.0 \leq t < 5.0\text{mm}$ | Longitudinal: 0.4 Transversal: 0.8 |
| | | % (max) $t \geq 5.0\text{mm}$ | Longitudinal: 0.3 Transversal: 0.6 |
| Resistance to Wet Heat (100°C) | EN 438-2-18 | Rating (min) Appearance | Gloss Finish: 3 |
| | | | Other Finishes: 4 |
| Resistance to Impact by Large Diameter Ball | EN 438-2-21 | mm (min) $2.0 \leq t < 6.0\text{mm}$ $t \geq 6.0\text{mm}$ | Drop Height: 1400 Drop Height: 1800 |
| Resistance to Crazeing | EN 438-2-24 | Rating (min) Appearance | 4 |
| Resistance to Scratching | EN 438-2-25 | Rating (min) Force | Smooth Finishes: 2 |
| | | | Textured Finishes: 3 |

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| BRAND NAME | | NEROPAN |  |
| PROPERTY | TEST METHOD | UNITS | RESULTS |
| Resistance to Staining | EN 438-2-26 | Rating (min) Appearance | Groups 1 & 2: 5 |
| | | | Group 3: 4 |
| Light Fastness (Xenon Arc) | EN 438-2-27 | Grey Scale Rating | Contrast: 4 to 5 |
| Flexural Modulus | EN ISO 178 | mpa (min) | 9000 |
| Flexural Strength | EN ISO 178 | mpa (min) | 80 |
| Density | EN 323 | g/cm ³ (min) | 1.35 |
| OTHER PROPERTIES | | | |
| PROPERTY | TEST METHOD | UNITS | RESULTS |
| Reaction to Fire | EN 13501-1 | Classification | Min D-s2,d0 |
| Release of Formaldehyde | EN 717 | Class | E1 |
| Antibacterial Activity | ISO 22196 | % of kill | After 24 hours, the reduction of the bacteria inoculated on the decorative surface is > 99.98% |
| Overall Migration: Contact with Food | EC 1935 BSEN 1186 | mg/dm ² | < 10 (Suitable for applications in areas in contact with foodstuffs) |
| STORAGE | | | |
| <p>The sheets should be stored in a dry and covered stock conditions at temperatures between 18 and 36°C and relative humidity between 50 and 65%. Avoid direct exposure to UV radiation and keep minimum distance of 1.5m away from sources of heat (radiators). Direct floor and outside wall contact must be avoided at all times. Stored sheets stock should be rotated such that older sheets will be used first.</p> <p>Sheets should be stored in their original manufacturer's packaging, on pallets, in horizontal form and always tightly strapped or covered by a protective board (no raw chipboard) of at least the same format to avoid any damages or warping. In case the boards are protected by plastic film, the covering shall be removed immediately after installation.</p> <p>If horizontal storage is not possible, the sheets must be stored at an angle of approximately 80° against a full-surface support with counter-support. Using a laminated protective board of at least the same format is required for upright storage as well.</p> <p>Best use before 6 months from production date.</p> | | | |