

Technical Data Specifications

| HPL PROPERTIES | TEST METHOD | PROPERTY SPECIFICATIONS |
|---|--|---|
| THICKNESS | JIS K 6902 | 0.8 ± 0.1mm |
| | DIN EN 438-2 / EN 438:2005 | |
| RESISTANCE TO SURFACE WEAR | JIS K 6902 - 6.2 | ≥ 200 revolutions |
| | EN-438 - 2.10 | Min. 2-3 / ≥ 350 revolutions |
| RESISTANCE TO SCRATCHING | JIS K 6902 - 14.2 | 4-5 |
| | EN 438-2 / EN-438 - 2.25 | ≥ 3 N |
| RESISTANCE TO STAINING* | JIS K 6902 - 15.2 | No change for materials (3,6,7,8,9,10,17)* No or slight change (1,2,4,5, 11,12, 13,14,15,16,18)* |
| | EN-438 - 2.26 | 5 for group 1-2 / ≥ 4 for group 3-4 |
| RESISTANCE TO IMPACT | JIS K 6902 - 12.2 (large ball) | Min. 30cm |
| | EN 438-2 / EN-438 - 2.20 (small diameter ball - spring force) | ≥ 15-20 N |
| RESISTANCE TO DRY HEAT | JIS K 6902 - 8.2 | Min. 3 (gloss finish) / Min. 4 (other finishes) |
| | EN 438-2 / EN-438-2.16 (180°C) | ≥ 3 (smooth finishes)/ ≥ 4 (textured finishes) |
| RESISTANCE TO IMMERSION IN BOILING WATER | JIS K 6902 - 7 | Mass increase: max. 17% Thickness increase: max. 19% Appearance: min. 4 |
| | EN 438-2 / EN-438 - 2.12 | Min. ≥ 3 (smooth finishes)/ Min. ≥ 4 (textured finishes) |
| COLOUR FASTNESS | JIS K 6902 - 16.4 | Appearance: min. 3 lab colour difference Δ E 3.0 max. |
| | EN 438-2 / EN-438 - 2.27 (xenon arc light/contrast) | Grey scale: min. ≥ 4 |
| DIMENSIONAL STABILITY | JIS K 6902 - 9.2 (high temperature) | Long: max. 0.7% / Trans: max. 1.2% |
| | EN 438-2 / EN-438 - 2.17 (elevated temperature) | Length/Long: ≤ 0.55% - Width/Trans: ≤ 1.05% |
| RESISTANCE TO CIGARETTE BURNS | JIS K 6902 - 17.2 (electric heater) | 45 seconds min. |
| | EN 438-2 / EN-438 - 2.30 (appearance rating) | Min. ≥ 3 |
| RESISTANCE TO ACCELERATED WEATHERING | ASTM G154: 2006 (8 hrs. QUV and 4 hrs. Condensation) No loss of gloss. No cracking or delamination | |
| FIRE RATED CLASS 0 | Fire Propagation: BS 476: Part 6: 1989 + A 1: 2009 Surface Spread of Flame: BS 476: Part 7: 1997 (Class 1) | |
| SINGAPORE GREEN LABEL SCHEME | SGL #042-038-2160 - Environmentally Improved Low Emission - Low Toxicity | |
| | SGL #042-002-1241 / SGL #042-002-1243 - Environmentally Preferred laminate | |
| MARINE GRADE CERTIFICATION | DET NORSKE VERITAS (DNV) EC Type Examination Certificate (Module B) MED-B-9378 QS-Certificate of Assessment-EC (Module D) MED-D-1798 | |
| | CSI S.p.A - CSI CERT EC Certificate of Type Examination MED/0497/452/14 | |

*** MATERIAL USED IN TESTING**

1. Tea
2. Coffee
3. Milk
4. 1% alcohol solution in iodine

5. Edible vinegar
6. 10% water solution of citric acid
7. Gasoline
8. Acetone
9. Olive Oil

10. 10% aqueous ammonia
11. Crayon (Black)
12. Shoe Polish (Black)
13. 0.01% aqueous solution of red food colouring #102
14. Ink (Blue/Black)

15. 2% solution of mercurochrome
16. 5% solution of phenol
17. Aqueous solution of acid sodium sulfate
18. Soy sauce

* All technical data specifications are accurate at the time of printing and subject to updates without prior notice.