

## LABOLINE COMPACT LAMINATE TECHNICAL DATA SHEET

**ASD LABOLINE COMPACT LAMINATES**; having thickness 2 mm or greater, according to EN 438-4, consisting of a surface of decorative paper(s), one or both sides, impregnated with melamine resins and a core made of layers of kraft paper impregnated with phenolic resins. These laminates are self-supporting they are ready for installation.

| PROPERTIES                                    | TEST METHOD   | PROPERTY OR ATTRIBUTE                   | UNIT (max or min)               | VALUES                  |
|---|---------------|---|---------------------------------|-------------------------|
| <b>SURFACE QUALITY</b>                        |               |   |                                 |                         |
| Surface Quality                               | EN 438-4      | Spots, dirt and similar surface defects | mm <sup>2</sup> /m <sup>2</sup> | ≤1                      |
|   |               | Fibres, hairs and scratches             | mm/m <sup>2</sup>               | ≤10                     |
| <b>DIMENSIONAL TOLERANCES</b>                 |               |   |                                 |                         |
| Dimensional Tolerances                        | EN 438-2.5    | Thickness tolerance                     | mm                              | 2,0≤t<3,0:±0,20         |
|   |               |   | mm                              | 3,0≤t<5,0:±0,30         |
|   |               |   | mm                              | 5,0≤t<8,0:±0,40         |
|   |               |   | mm                              | 8,0≤t<12,0:±0,50        |
|   |               |   | mm                              | 12,0≤t<16,0:±0,60       |
|   |               |   | mm                              | 16,0≤t<20,0:±0,70       |
|   |               |   | mm                              | 20,0≤t<25,0:±0,80       |
|   | EN 438-2.6    | Lenght and width                        | mm                              | +10/-0                  |
|   | EN 438-2.7    | Straightness of edges                   | mm/m                            | ≤1,5                    |
|   | EN 438-2.8    | Squareness                              | mm/m                            | ≤1,5                    |
| EN 438-2.9                                    | Flatness      | mm/m                                    | 2,0≤t<6,0:≤8                    |                         |
|   |               | mm/m                                    | 6,0≤t<10:≤5                     |                         |
|   |               | mm/m                                    | 10,0≤t:≤3                       |                         |
| <b>GENERAL PROPERTIES</b>                     |               |   |                                 |                         |
| Resistance to surface wear                    | EN 438-2.10   | Initial point                           | Revolutions                     | ≥550                    |
|   |               | Wear value                              | Revolutions                     |                         |
| Resistance to immersion in boiling water      | EN 438-2.12   | Mass increase - 2≤t<5                   | %                               | 5,0 / 7,0               |
|   |               | Mass increase t≥5                       | %                               | 2,0 / 3,0               |
|   |               | Thickness increase 2≤t<5                | %                               | 6,0 / 9,0               |
|   |               | Thickness increase t≥5                  | %                               | 2,0 / 6,0               |
|   |               | Appearance-Gloss Finish                 | Rating (min)                    | 3                       |
| Resistance to water vapour                    | EN 438-2.14   | Appearance-Other Finish                 | Rating (min)                    | 4                       |
|   |               | Resistance to dry heat (180°C)          | EN 438-2.16                     | Appearance-Other Finish |
| Resistance to weat heat (100 °C)              | EN 12721:2010 | Appearance-Other Finish                 | Rating (min)                    | 4                       |
| Dimensional stability at elevated temperature | EN 438-2.17   | Cumulative dimensional change 2≤t<5     | Longitudinal %                  | ≤0,40                   |
|   |               | Cumulative dimensional change t≥5       | Longitudinal %                  | ≤0,40                   |
|   |               | Cumulative dimensional change 2≤t<5     | Transversal %                   | ≤0,80                   |
|   |               | Cumulative dimensional change t≥5       | Transversal %                   | ≤0,60                   |
| Resistance to impact with large diameter ball | EN 438-2.21   | Indentation diameter 2≤t<6              | mm                              | h 1400/ d≤10            |
|   |               | Indentation diameter t≥6                | mm                              | h 1800/ d≤10            |
| Resistance to crazing                         | EN 438-2.24   | Appearance                              | Rating (min)                    | 4                       |
| Resistance to scratching                      | EN 438-2.25   | Appearance-Smooth Finish                | Rating (min)                    | 2                       |
|   |               | Appearance-Textured Finsh               | Rating (min)                    | 3                       |
| Light fastness (Xenon-arc)                    | EN 438-2.27   | Contrast                                | Grey scale rating               | 4                       |
| Flexural modulus                              | EN ISO 178    | Stress                                  | Mpa (min)                       | 9000                    |
| Flexural Strength                             | E NISO 178    | Stress                                  | Mpa (min)                       | 80                      |
| Tensile Strength                              | EN ISO 527-2  | Stress                                  | Mpa (min)                       | 60                      |
| Density                                       | EN ISO 1183   | Density                                 | g/cm <sup>2</sup>               | ≥1,35                   |
| <b>FIRE PERFORMANCES</b>                      |               |   |                                 |                         |
| Reaction to fire                              | EN 13823      | Classification- t: 6 mm-10 mm           | Classification                  | D-s2,d0                 |
| <b>OTHER PROPERTIES</b>                       |               |   |                                 |                         |
| Formaldehyde emission                         | EN 717-2      | Gas analysis                            | mg/(m <sup>2</sup> *h)          | 0,5                     |
|   |               | Classification                          | Rating                          | E1                      |

### RESISTANCE TO STAINING (24 HOURS);

Amonyum Hydroxide, Sodium Hydroxide,Chloric Acid(%28),Silver Nitrate(%20),Ferric(III)(%60),Sodium Nitrate(%1),Ethyl Alcohol,N-Hexane,Methyl Alcohol,Toluene,Xylene, Methylene Blue, Copper Sulphate, Ether, Hydrochloric Acid, Sulphate Acid (%33), Nitric Acid(%30), Phosphoric Acid(%45)