



## TroPly Satins – Technical Data Sheet

|  | DIN  | ISO  | ASTM  | UNIT              | VALUE          |
|--|--|------|-------|-------------------|----------------|
| <b>General characteristics</b>                     |  |      |       |                   |                |
| Specific density                                   | 53479  | 1183 | D792  | g/cm <sup>3</sup> | 1.05           |
| <b>Mechanical properties</b>                       |  |      |       |                   |                |
| Tensile strength                                   | 53455  | 527  | D638  | MPa               | 1900           |
| Elongation at break                                | 53455  | 527  | D638  | %                 | 38             |
| Rockwell hardness                                  | /  | 2039 | D785  | MPa               | M 50           |
| Impact strength (CHARPY un-notched)                | 53453  | 179  | /     | KJ/m <sup>2</sup> | does not break |
| Impact strength (IZOD notched)                     | 53453  | 180  | D256  | J/m               | 36             |
| <b>Thermal properties</b>                          |  |      |       |                   |                |
| Vicat softening temperature B/50 // A/50           | 53460  | 306  | D1525 | °C                | 103/94         |
| HDT double thermal treatment (1.82 MPa / 0.45 MPa) | 53461  | 75   | D648  | °C                | 96/101         |
| <b>Technical characteristics</b>                   |  |      |       |                   |                |
| Material   | ABS+ modified acrylic                          |      |       |                   |                |
| Temperature resistance                             | from -40°C to +80°C                            |      |       |                   |                |
| Scratch resistance                                 | internal test with sclerograph (value = 300 g) |      |       |                   |                |
| Outdoor use  | no   |      |       |                   |                |
| Indoor use   | yes  |      |       |                   |                |
| Fire resistance                                    | UL94 method – class HB                         |      |       |                   |                |
| Odour  | odourless                                      |      |       |                   |                |
| Engraving method                                   | mechanical engraving, laser                    |      |       |                   |                |
| Engraving depth                                    | 0.3 mm   |      |       |                   |                |

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| <b>Aesthetic characteristics</b> |  |
|----------------------------------|--|
| Surface treatment                | brushed  |
| Surface finish                   | without holes, inclusions, scratches based on the approved sample            |
| Colour tolerance                 | - max.: 1.5 (DE/DE tolerances) measured on the approved sample               |
|                                  | - Calculation method: CIE LAB CMC (1:1) (according to British Standard 6923) |
|                                  | - Light source/observer: D65/10°   |
| Impurities                       | No. 01 ≤ 1 mm <sup>2</sup>   |
|                                  | No. 01 ≤ 0.5 mm <sup>2</sup>   |
|                                  | No. 03 ≤ 0.2 mm <sup>2</sup>   |
| <b>Geometric characteristics</b> |  |
| Board dimensions                 | 1220 x 610 mm (tolerance +/- 0,2 %)  |
| Total thickness                  | 0,8 - 1,6 – 2,4 mm (tolerance +/- 0,1 mm)                                    |
| Thickness of top side            | 0,1 - 0,2 mm (tolerance +/- 0,03 mm)   |
| Evenness                         | max. 5 mm curvature of sheet   |

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