

## Technical Data Sheet

### Maywo® ABS mat

#### Product characteristics

- Vacuum formable
- Mat surface

#### Product applications

- Transportation industry
- Packaging
- Automotive industry

|                                         | Test method             | Unit                 | Guideline Value    |
|-----------------------------------------|-------------------------|----------------------|--------------------|
| <b>General properties</b>               |                         |                      |                    |
| Density                                 | DIN EN ISO 1183-1       | g / cm <sup>3</sup>  | 1,10               |
| Water absorption                        | DIN EN ISO 62           | %                    | 0,3                |
| Flammability (Thickness 1,5 mm)         | UL 94                   |                      | HB                 |
| <b>Mechanical properties</b>            |                         |                      |                    |
| Yield stress                            | DIN EN ISO 527          | MPa                  | 24* (34)           |
| Elongation at break                     | DIN EN ISO 527          | %                    | 51                 |
| Tensile modulus of elasticity           | DIN EN ISO 527          | MPa                  | 1595               |
| Notched impact strength                 | DIN EN ISO 179          | kJ / m <sup>2</sup>  | 9                  |
| Rockwell hardness                       | DIN EN ISO 2039-2       | scale R              | 97                 |
| <b>Thermal properties</b>               |                         |                      |                    |
| Thermal conductivity                    | DIN 52612-1             | W / (m * K)          | 0,17               |
| Coefficient of linear thermal expansion | DIN 53752               | 10 <sup>-6</sup> / K | 90                 |
| Service temperature, long term          | Average                 | °C                   | 85                 |
| Service temperature, short term (max.)  | Average                 | °C                   | 100                |
| Vicat softening temperature             | DIN EN ISO 306, Vicat B | °C                   | 101                |
| <b>Electrical properties</b>            |                         |                      |                    |
| Surface resistivity                     | DIN EN 61340            | Ω                    | > 10 <sup>12</sup> |
| Volume resistivity                      | DIN EN 61340            | Ω                    | > 10 <sup>12</sup> |

\*= no clear yield point, smooth transition. Tensile stress in parentheses.

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