Röchling

Industrial

# Technical Data Sheet

# Maywo® ABS mat

### Product characteristics

- Vacuum formable
- Mat surface

### Product applications

- Transportation industry
- Packaging
- Automotive industry

| | Test method | Unit | Guideline Value |
|---|---|---|---|
| **General properties** | | | |
| Density | DIN EN ISO 1183-1 | g / $cm^3$ | 1,10 |
| Water absorption | DIN EN ISO 62 | % | 0,3 |
| Flammability (Thickness 1,5 mm) | UL 94 | | HB |
| **Mechanical properties** | | | |
| 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 / $m^2$ | 9 |
| Rockwell hardness | DIN EN ISO 2039-2 | scale R | 97 |
| **Thermal properties** | | | |
| Thermal conductivity | DIN 52612-1 | W / (m * K) | 0,17 |
| Coefficient of linear thermal expansion | DIN 53752 | $10^{-6}$ / 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 |
| **Electrical properties** | | | |
| Surface resisitivity | DIN EN 61340 | Ω | > $10^{12}$ |
| Volume resistivity | DIN EN 61340 | Ω | > $10^{12}$ |

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

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INTEGRATED MANAGEMENT SYSTEM