

## Technical Data Sheet

# Maywotron<sup>®</sup> ABS L

ABS

### Typical characteristics

- Protection of electronic devices from electrostatic phenomena
- Conductive & dissipative

### Typical industries

- Vacuum Forming
- Electronics

|   | Test method             | Unit                 | Guideline value                   |
|---|-------------------------|----------------------|-----------------------------------|
| <b>General properties</b>               |                         |                      |                                   |
| Density                                 | DIN EN ISO 1183-1       | g / cm <sup>3</sup>  | 1,1                               |
| Water absorption                        | DIN EN ISO 62           | %                    | 0,3                               |
| Flammability (Thickness 1,5mm / 3 mm)   | UL 94                   |                      | HB                                |
| <b>Mechanical properties</b>            |                         |                      |                                   |
| Yield stress                            | DIN EN ISO 527          | MPa                  | 20                                |
| Elongation at break                     | DIN EN ISO 527          | %                    | 2                                 |
| Tensile modulus of elasticity           | DIN EN ISO 527          | MPa                  | 1785                              |
| Notched impact strength                 | DIN EN ISO 179          | kJ / m <sup>2</sup>  | 2                                 |
| Rockwell hardness                       | DIN EN ISO 2039-2       | scale R              | 80                                |
| <b>Thermal properties</b>               |                         |                      |                                   |
| Melting temperature                     | ISO 11357-3             | °C                   | >180°C                            |
| 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                   | 102                               |
| <b>Electrical properties</b>            |                         |                      |                                   |
| Surface resistivity                     | DIN EN 61340            | Ω                    | 10 <sup>5</sup> - 10 <sup>7</sup> |
| Volume resistivity                      | DIN EN 61340            | Ω                    | 10 <sup>5</sup> - 10 <sup>7</sup> |

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Print: 31/05/2026 • Release: 23/04/2024 • Version: 5.0  
 PIM-ID: 709707 • PIM-Code: 92-18-12.10-4.8-12  
 Company-IDs: 20070

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