

Technical Data Sheet

Maywotron® ABS/TPU Vol-R

ABS / TPU

Typical characteristics

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

Typical industries

- Vacuum Forming
- Electronics
- Semiconductor Dicing

| | 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 1,5mm / 3 mm) | UL 94 | | HB |
| Mechanical properties | | | |
| Yield stress | DIN EN ISO 527 | MPa | 32 |
| Elongation at break | DIN EN ISO 527 | % | 35 |
| Tensile modulus of elasticity | DIN EN ISO 527 | MPa | 2125 |
| Notched impact strength | DIN EN ISO 179 | kJ / m ² | 20 |
| Rockwell hardness (ABS) | DIN EN ISO 2039-2 | scale R | 80 |
| Thermal properties | | | |
| 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 ⁻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 | 102 |
| Electrical properties | | | |
| Surface resistivity | DIN EN 61340 | Ω | 10 ⁴ - 10 ⁶ |
| Volume resistivity | DIN EN 61340 | Ω | 10 ⁴ - 10 ⁶ |

