

### Technical Data Sheet

## Maywotron<sup>®</sup> ABS/TPU Sur-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
<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 1,5mm / 3 mm)	UL 94		HB
<b>Mechanical properties</b>			
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 <sup>2</sup>	20
Rockwell hardness (ABS)	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>4</sup> - 10 <sup>6</sup>
Volume resistivity	DIN EN 61340	Ω	> 10 <sup>12</sup>

