

## Technical Data Sheet

# Maywo® PS HI

PS

### Typical characteristics

- Good impact strength
- Recyclability

### Typical industries

- Vacuum Forming

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1,06
Water absorption	DIN EN ISO 62	%	< 0,1
Flammability (Thickness 1,5 mm)	UL 94		HB*
Flammability (Thickness 1,0; 1,5 mm)	DIN 4102		B2**
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	20
Elongation at break	DIN EN ISO 527	%	72
Tensile modulus of elasticity	DIN EN ISO 527	MPa	1730
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	8
<b>Thermal properties</b>			
Melting temperature	ISO 11357-3	°C	>170°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	80
Service temperature, short term (max.)	Average	°C	90
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	90
<b>Electrical properties</b>			
Surface resistivity	DIN EN 61340	Ω	> 10 <sup>12</sup>
Volume resistivity	DIN EN 61340	Ω	> 10 <sup>12</sup>

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\* internal test

\*\* For classification according DIN 4102, the finished component has to be tested.

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