

Technical Data Sheet

Formaterm[®] PS-HI sign/advertising

PS

Typical characteristics

- High impact resistance
- High stiffness
- Good printable

Typical industries

- Vehicle Construction
- Building industry
- Advertising Industry
- Ship & Boatbuilding

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,04
Water absorption	DIN EN ISO 62	%	0,2 – 0,3
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	21
Elongation at break	DIN EN ISO 527	%	60
Tensile modulus of elasticity	DIN EN ISO 527	MPa	1850
Notched impact strength	DIN EN ISO 179	kJ / m ²	10
Shore hardness	DIN EN ISO 868	scale D	80
Thermal properties			
Glass transition temperature	ISO 11357-3	°C	95 – 100
Thermal conductivity	DIN 52612-1	W / (m * K)	0,18
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	70
Service temperature, long term	Average	°C	-10 ... 80
Service temperature, short term (max.)	Average	°C	75 – 90
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	99
Electrical properties			
Dielectric constant	IEC 60250		2,50
Dielectric dissipation factor (10 ⁶ Hz)	IEC 60250		0,0004
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10 ¹⁶
Surface resistivity	DIN EN 62631-3-2	Ω	>10 ¹⁵



	Test method	Unit	Guideline value
Dielectric strength	IEC 60243	kV / mm	40

