



## PA 66 Technical sheet

Physical Properties	Value	Test Method	Unit
Density	1.15	DIN EN ISO 1183-1	g/cm <sup>3</sup>
Water Absorption	2.8	DIN EN ISO 62	%
Flammability (Thickness 3mm / 6mm)	HB / V2	UL 94	-
Mechanical properties			
Yield Stress	85	DIN EN ISO 527	MPa
Elongation at Break	50	DIN EN ISO 527	%
Tensile Modulus of Elasticity	3300	DIN EN ISO 527	MPa
Charpy Impact Strength - Notched	≥ 3.0	DIN EN ISO 179	MPa
Ball Indentation Hardness	180	DIN EN ISO 2039-1	MPa
Shore Hardness	83	DIN EN ISO 868	Scale D
Thermal properties			
Melting Temperature	260	ISO 11357-3	°C
Thermal Conductivity	0.23	DIN 52612-1	W/mK
Coefficient of Linear Thermal Expansion:	80	DIN 53752	10 <sup>-6</sup> ×K <sup>-1</sup> *
Thermal Capacity	1.7	DIN 52612	Kj/(kg x K)
Service Temperature: - Long Term	-30°C ... 95	Average	°C
- Short Term, Maximum	170	Average	°C
Heat Deflection Temperature	100	DIN EN ISO 75, Method A	°C
Electrical Properties			
Dielectric Constant	3.8	IEC 60250	-
Dielectric Dissipation Factor (50 Hz)	0.015	IEC 60250	-
Volume Resistivity	10 <sup>15</sup>	IEC 60093	Ω x cm
Surface Resistivity	10 <sup>13</sup>	IEC 60093	Ω
10 <sup>13</sup> IEC 60093			
Comparitive Tracking Index	600	IEC 60112	-
Dielectric Strength	25	IEC 60243	kV/mm