

Polyamid PA6

Material number		1101	
Density	ISO 1183	1,14	g/cm ³
Condition of the test specimen		dry / humid (50%)	

Mechanical properties

Stress at yield	ISO 527	80/45	MPa
Elongation at break	ISO 527	70/200	%
Tensile modulus	ISO 527	3000/1000	MPa
Ball pressure hardness	ISO 2039-1	150/70	MPa
Standard for ball pressure hardness		H358/30	
Hardness Shore (A/D) or Rockwell (R/L/M)	ISO 868, ISO 2039-2	D82/D68	-
Izod notched impact strength at 23 °C	ISO 180/1A	8,3/NB	KJ/m ²
Charpy notched impact strength at 23 °C	ISO 179/1eA	7/80	KJ/m ²

Electrical properties

Dielectric constant at 50 Hz	IEC 60250	4,0/12,0	-
Dielectric constant at 1 MHz	IEC 60250	3,5/7,0	-
Dissipation factor at 50 Hz	IEC 60250	100/3000	1E-4
Dissipation factor at 1 MHz	IEC 60250	310/3000	1E-4
Dielectric strength	IEC 60243-1	15	kV/mm
Thickness for electric strength		1,0	mm
Volume resistivity	IEC 60093	10 ¹³ /10 ¹⁰	Ohm · m
Surface resistivity	IEC 60093	10 ¹³ /10 ¹⁰	Ohm
Comparative tracking index	IEC 60112	600	-

Thermal properties

Thermal conductance	DIN 52 612	0,23	W/K m
Linear thermal expansion along cross to direction of flow	ISO 11359	70 100	10 ⁻⁶ /K
Melting point or glass transition temp.	ISO 11357	220	°