



Technical Data Sheet

PA 6.6 + PE

Physical Properties	Value	Unit	Standard
Density	1.11	g/cm ³	ISO 1183
Moisture pick-up till saturation (in normal climate 23 °C / 50% r.h.)	2.2	%	ISO 62
Water absorption till saturation (in water at 23 °C)	8.5	%	ISO 62
Mechanical Properties			
Tensile stress at yield (v = 50 mm/min)	70	MPa	ISO 527-2
Tensile stress at break (v = 5 mm/min)	-	MPa	ISO 527-2
Nominal percentage elongation at break	>40	%	ISO 527-2
Tensile modulus of elasticity	2700	MPa	ISO 527-2
Flexural modulus of elasticity	-	MPa	ISO 178
Ball indentation hardness (value at 30 sec.)	-	MPa	ISO 2039-1
Rockwell hardness (measured with test pieces 10 mm thick)	-		ISO 2039-2
Charpy impact strength (+23 °C)	40	kJ/m ²	ISO 179/1eU
Charpy impact strength - notched (+23 °C)	6	kJ/m ²	ISO 179/1eA
Electric Properties			
Specific insulation resistance [≥]	10 ¹²	Ohm · m	IEC 60093
Specific surface resistance [≥]	10 ¹³	Ohm	IEC 60093
Dielectric constant (at 1 MHz)	3.3	10 ⁶ Hz	IEC 60250
Dielectric constant (at 100 Hz)	3.8	10 ² Hz	IEC 60250
Dissipation factor (at 1 MHz)	0.020	10 ⁶ Hz	IEC 60250
Dissipation factor (at 100 Hz)	0.013	10 ² Hz	IEC 60250
Dielectric strength K20/K20 (in transformer oil)	27	kV/mm	IEC 60243-1
Comparative tracking index (CTI)	600		IEC 60112
Thermal Properties			
Temperature for usage in air (max. short term)	210	°C	
Temperature for usage in air (max. lasting)	105	°C	
Minimum service temperature in air	-	°C	
Heat distortion temperature (HDT A process)	60	°C	ISO 75-2
Coefficient of linear expansion (at length, 23 – 60 °C)	0.85	10 ⁻⁴ /K	ISO 11359
Thermal conductivity (+23 °C)	0.33	W/(K · m)	DIN 52612
Flammability according UL Standard (thickness 3 and 6 mm)	HB	Class	UL 94
Vicat softening temperature (VST/B/50)	-	°C	ISO 306
Melting point (DSC, 10 K/min)	260	°C	ISO 3146

n.br. = no break

Data stated above are average values gathered by statistical tests on a regular basis. Data above are provided for information and shall not be regarded as binding unless expressly agreed in a contact of sale.