



PA6.6 3000x500x60 mm black

Article No.	P1002097
Category	PA

Technical Properties

Density & Weight

Property	Value	Unit	Test standard
Density	1.14	g/cm ³	ISO 1183

Moisture Absorption

Property	Value	Unit	Test standard
Water absorption to saturation	2.4	%	ISO 62
Water Absorption to Saturation	8	%	ISO 62

Tensile Properties

Property	Value	Unit	Test standard
Tensile Strength	85	MPa	DIN EN ISO 527
Modulus of elasticity (tensile)	3100	MPa	ISO 527-2
Break Elongation	40	%	ISO 527-2

Flexural Properties

Property	Value	Unit	Test standard
Flexural Strength	998.3	MPa	ISO 178

Impact Resistance

Property	Value	Unit	Test standard
Notched impact strength (Charpy)	6	kJ/m ²	ISO 179/1eA

Property	Value	Unit	Test standard
Impact Resistance (Charpy)	50	kJ/m ²	ISO 179

Hardness

Property	Value	Unit	Test standard
Hardness Shore D	83	° Shore D	DIN EN ISO 868
Ball pressure hardness	174	MPa	ISO 2039-1

Temperature Limits

Property	Value	Unit	Test standard
Melting point	260	°C	ISO 3146
Maximal operating temperature (short-term)	175	°C	
Maximum Operating Temperature	95	°C	
Minimum temperature	-30	°C	
Heat deflection temperature (HDT/A)	85	°C	ISO 75-2

Thermal Conductivity

Property	Value	Unit	Test standard
Thermal Conductivity	0.28	W/(m·K)	DIN 52612

Thermal Expansion

Property	Value	Unit	Test standard
Thermal Expansion Coefficient	0.8	10 ⁻⁴ /K	ISO 11359

Insulation Properties

Property	Value	Unit	Test standard
Dielectric Strength	27	kV/mm	IEC 60243-1
Volume Resistivity	10 ¹⁴	Ω·cm	IEC 60093
Dielectric Constant (1 MHz)	3.55	-	IEC 60250
Dielectric Constant (100 Hz)	3.8	-	IEC 60250
Dielectric loss factor (1 MHz)	0.02	-	IEC 60250
Dielectric loss factor (100 Hz)	0.0	-	IEC 60250

Static spread

Property	Value	Unit	Test standard
----------	-------	------	---------------

Property	Value	Unit	Test standard
Surface Resistivity	10 ¹³	Ω	IEC 60093
Comparative Tracking Index (CTI)	600	V	IEC 60112