



PA6 GL 50x2000 mm green

Article No.	P1600304
Category	PA

Technical Properties

Density & Weight

Property	Value	Unit	Test standard
Density	1.1	g/cm ³	DIN EN ISO 1183-1

Moisture Absorption

Property	Value	Unit	Test standard
Water absorption to saturation	5.65	%	DIN EN ISO 62
Water Absorption to Saturation	5.65	%	DIN EN ISO 62

Tensile Properties

Property	Value	Unit	Test standard
Tensile Strength	67.5	MPa	DIN EN ISO 527
Modulus of elasticity (tensile)	3000	MPa	DIN EN ISO 527
Break Elongation	198.5	%	DIN EN ISO 527

Impact Resistance

Property	Value	Unit	Test standard
Notched impact strength (Charpy)	13	kJ/m ²	DIN EN ISO 179

Hardness

Property	Value	Unit	Test standard
Hardness Shore D	81	° Shore D	ISO 868

Temperature Limits

Property	Value	Unit	Test standard
Melting point	218	°C	ISO 11357-3
Maximal operating temperature (short-term)	162.5	°C	
Maximum Operating Temperature	109	°C	
Minimum temperature	-40	°C	
Heat deflection temperature (HDT/A)	90	°C	ISO 75

Thermal Conductivity

Property	Value	Unit	Test standard
Thermal Conductivity	0.3	W/(m·K)	DIN 52612-1

Thermal Expansion

Property	Value	Unit	Test standard
Thermal Expansion Coefficient	0.7	10 ⁻⁴ /K	DIN 53752

Insulation Properties

Property	Value	Unit	Test standard
Dielectric Strength	20	kV/mm	IEC 60243
Volume Resistivity	10 ¹⁵	Ω·cm	DIN EN 62631-3-1
Dielectric Constant (1 MHz)	3.7	-	IEC 60250
Dielectric loss factor (100 Hz)	0.02	-	IEC 60250

Static spread

Property	Value	Unit	Test standard
Surface Resistivity	10 ¹³	Ω	DIN EN 62631-3-2
Comparative Tracking Index (CTI)	600	V	IEC 60112