

PA 11 Black

Material datasheet PA 11 Black

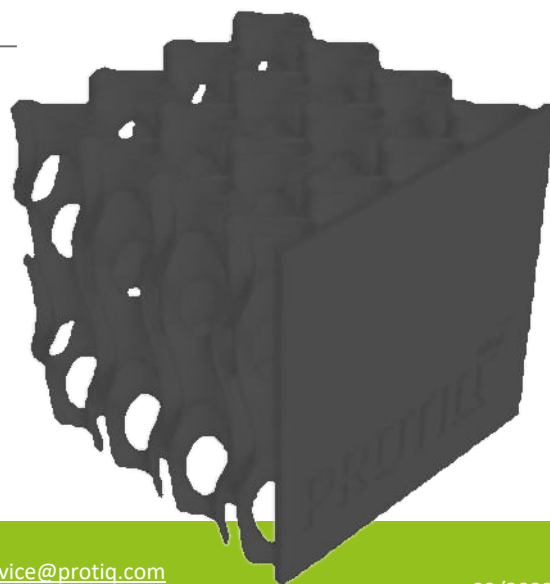
general properties

properties	unit	value
base material	–	PA 11
density laser-sintered	g/cm ³	1,02
surface roughness (Ra/Rz)	µm	6–10 / 35–45
precision	mm	+/- 0,7 %, min. 0,1 mm
minimal wall thickness	mm	1,0



mechanical properties

properties	unit	value
flexural modulus	MPa	1.300
tensile modulus	MPa	1.150
tensile strength	MPa	45
elongation at break	%	42
Izod impact strength	kJ/m ²	No break – 63
Izod notched impact strength	kJ/m ²	9,3 – 9,9
Charpy notched impact strength	kJ/m ²	11
Charpy impact strength	kJ/m ²	No break - 75



Dear PROTIQ customer, all information given is based on our knowledge and experience at the time of publication. In addition, the material properties can be influenced by component geometry, environmental influences and material additives. The stated material or component properties, as well as their suitability for specific applications, are neither agreed nor guaranteed, despite regular quality controls. The customer is responsible for checking the component properties and suitability for a specific application.

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thermal properties

properties	unit	value
melting point	°C	203
temperature of deflection (1,80 MPa)	°C	62
temperature of deflection (0,45 MPa)	°C	177
Vicat softening temperature B/50	°C	175
Vicat softening temperature A/10	°C	192
UL Flammability	mm	HB (0.9-3.2mm)

electrical properties

Eigenschaft	Einheit	Wert
specific Volume resistivity	$\Omega \cdot \text{cm}$	$3,5 \cdot 10^{14}$
specific Surface resistivity	Ω	10^{16}
Dielectric strength	kV/mm	27

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