

PA 12

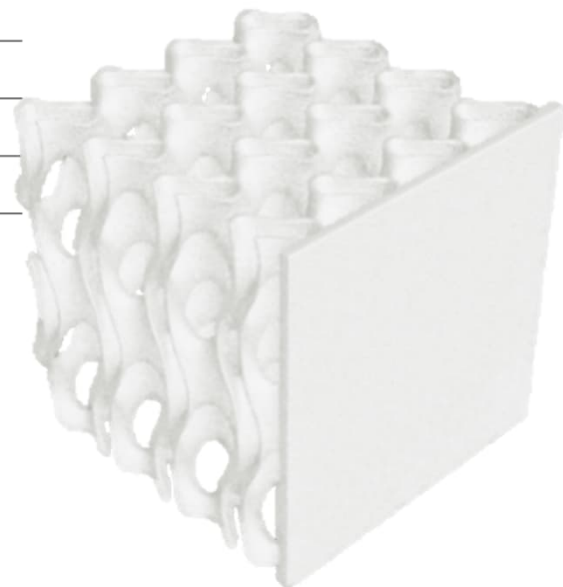
Material datasheet PA2200

general properties

properties	unit	value
base material	–	PA 12
density laser-sintered	g/cm ³	0,9 – 1,0
surface roughness (Ra/Rz)	µm	8–11 / 50–70
precision	mm	± 0,1 / ± 0,7 %
minimal wall thickness	mm	1,0

mechanical properties

properties	unit	value
hardness (Shore D)	–	75 ± 2 D
flexural modulus	MPa	1500
flexural strength	MPa	58
tensile modulus	MPa	1.700 ± 150
tensile strength	MPa	45 – 50
ball indentation hardness	N/mm ²	78
elongation at break	%	15 ± 10
Izod impact strength	kJ/m ²	32,8 ± 3,4
Izod notched impact strength	kJ/m ²	4,4 ± 0,4
Charpy notched impact strength	kJ/m ²	4,8 ± 0,3
Charpy impact strength	kJ/m ²	53 ± 3,8



Dear 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.

PA 12

Material datasheet PA2200

thermal properties

properties	unit	value
melting point	°C	176
temperature of deflection (1,80 MPa)	°C	70
temperature of deflection (0,65 MPa)	°C	154
Vicat softening temperature B/50	°C	163
Vicat softening temperature A/50	°C	181

electrical properties

properties	unit	value
volume resistivity	$\Omega \cdot \text{cm}$	$10^{13} - 10^{15}$
surface resistivity	Ω	10^{13}
dielectric constant (1 kHz)	10^2 Hz	3,8
dielectrical strength	kV/mm	92

Dear 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.

