PA 12

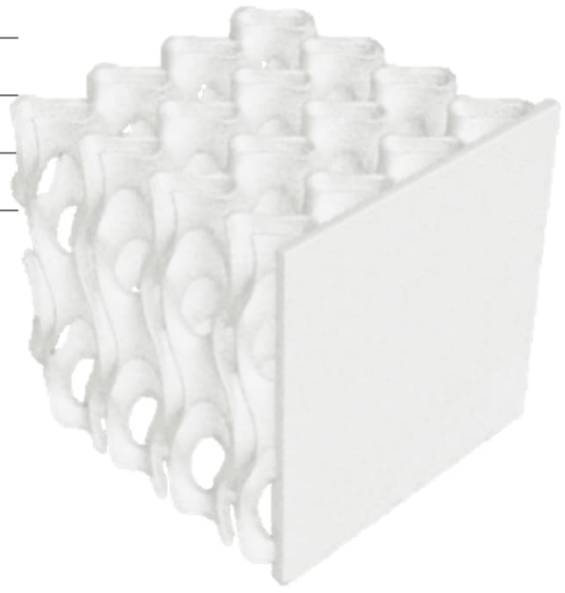
Material datasheet PA2200

general properties

properties	unit	value
base material	–	PA 12
density laser-sintered	g/cm³	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/mm²	78
elongation at break	%	15 ± 10
Izod impact strength	kJ/m²	32,8 ± 3,4
Izod notched impact strength	kJ/m²	4,4 ± 0,4
Charpy notched impact strength	kJ/m²	4,8 ± 0,3
Charpy impact strength	kJ/m²	53 ± 3,8



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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	Ω*cm	10^{13} – 10^{15}
surface resistivity	Ω	10^{13}
dielectric constant (1 kHz)	10^2 Hz	3,8
dielectrical strength	kV/mm	92