

MATERIAL DATA SHEET: POLYAMIDE PA

Material	Composition
POLYAMIDE PA	PA 2200 (Nylon PA12)

Material Properties		Test Method
Density	0.93 g/cm ³	
Tensile strength	48 Mpa	EN ISO 527
Tensile modulus	1700 Mpa	
Elongation at break	24%	
Flexural modulus	1500 Mpa	EN ISO 178
Flexural strength	58 Mpa	
Charpy-Impact strength	53 kJ/m ²	EN ISO 179
Charpy-Notched impact strength	4.8 kJ/m ²	
Izod-Impact strength	32.8 kJ/m ²	EN ISO 180
Izod-Notched impact strength	4.4 kJ/m ²	
Ball indentation hardness	78 N/mm ²	EN ISO 2039
Shore D - hardness	75	ISO 868
Melting point	172-180 °C	EN ISO 11357-1
Vicat softening temperature B/50	163 °C	EN ISO 306
Vicat softening temperature A/50	181 °C	

Design Guidelines			
Maximum printable size X x Y x Z (white natural)	650x350x550 mm	Minimum wall tickness	0.7 mm
Maximum printable size X x Y x Z (coloured)	270x150x150 mm	Minimum wires	0.8 mm
Construction support required	No	Layer tickness	100 µm
Minimum size details	0.8 mm	Accuracy	± 0.15 mm +0,15%
Interlocking parts	YES	Minimum space assembly	0.5 mm
Enclosed parts	YES	Clearance	0.5 mm