

**PRODUCT:**

### Selective Laser Sintering (SLS) - PA12

Nylon PA12, a high-performance polyamide powder used in Selective Laser Sintering technology, offers exceptional versatility and reliability for a wide range of applications. Known for its high precision, low cost, and excellent mechanical properties, this material is ideal for rapid prototyping and finished consumer products alike. Its low moisture absorption ensures excellent chemical resistance, while its biocompatibility makes it suitable for medical applications, including prosthetics.



Highly durable, Nylon PA12 provides outstanding abrasion resistance, UV stability for outdoor use, and the ability to create complex movable connections like gears and hinges. This adaptability makes it a top choice for innovative and demanding manufacturing needs.

PART PROPERTIES	VALUE
Average grain Size (µm)	58-60
Bulk Density (g/L)	435 - 470
Tensile Modulus (N/mm <sup>2</sup> )	1700 (+/- 150)
Tensile Strength (N/mm <sup>2</sup> )	42 - 50
Elongation at break - XY (%)	15 - 16
Elongation at break - Z (%)	3 - 9
HDT (A) - (DIN EN ISO 75) - 1.80 MPa	85° C
HDT (B) - (DIN EN ISO 75) - 0.45 MPa	170° C

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