

## NYLON 12 PA

### LASER SINTERING MATERIAL

**DESCRIPTION:**

THIS POLYAMIDE IS THE REGULAR NYLON MATERIAL FOR SLS PROCESS. IT HAS EXCELLENT SURFACE RESOLUTION AND FEATURE DETAILS. IT HAS GOOD CHEMICAL RESISTANCE. THE NYLON 12 IS CHARACTERIZED BY LOW MOISTURE ABSORPTION. IT CAN PRODUCE DURABLE PRODUCTION PARTS WITHOUT TOOLING.

**APPLICATIONS:**

THE NYLON 12 MATERIAL IS MAINLY USED FOR COMPLEX PROTOTYPE PLASTIC PARTS. THEY ARE ALSO USED IN LOW VOLUMES OF FUNCTIONAL PARTS. SOME OF ITS APPLICATIONS INCLUDES HOUSING AND ENCLOSURES, IMPELLERS, CONNECTORS AND COMPLEX DUCTWORK AND ALSO IN SNAP FIT DESIGNS.



### NYLON 12 PA

PROPERTY	ASTM	METRIC UNITS
FLEXURAL MODULUS	D790	1300 MPA
FLEXURAL STRENGTH	D790	47 MPA
ELONGATION	D638	4-15%
HEAT DEFLECTION TEMP (66 PSI)	D648	177 °C
TENSILE MODULUS	D638	1700 MPA

### SERVICES AVAILABLE

- PRODUCT DESIGN
- RAPID PROTOTYPING
- SLA
- FRSLA
- POLYJET
- SLS**
- DMLS
- FDM
- PLASTIC CASTING
- CNC MACHINING
- INJECTION MOLD TOOLING
- RAPID TOOLING
- PRODUCTION TOOLING
- INJECTION MOLDING
- METAL CASTING

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