

NYLON 12 AF

LASER SINTERING MATERIAL

DESCRIPTION:

THIS ALUMINIUM FILLED COMPOSITE POLYAMIDE PRODUCES STRONG AND STIFF PARTS WITH A GREY METALLIC APPEARANCE. IT HAS AN IMPROVED TENSILE MODULUS AND FLEX MODULUS COMPARED TO THE REGULAR NYLON MATERIAL. IT IS ALSO CHARACTERIZED BY GOOD WEAR RESISTANCE AND DETAIL REPRODUCTION. IT IS MAINLY SUITABLE FOR PARTS REQUIRING SUPERIOR SURFACE FINISH.

APPLICATIONS:

THIS MATERIAL IS IDEAL FOR AEROSPACE, AUTOMOTIVE, PACKAGING, ELECTRONICS, CONSUMER PRODUCTS, INDUSTRIAL AND OEM PRODUCTS. IT IS MAINLY USED FOR MANUFACTURING FUNCTIONAL COMPONENTS INCLUDING JIGS AND FIXTURES.



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PROPERTY	ASTM	METRIC UNITS
FLEXURAL MODULUS	D790	1994 MPA
FLEXURAL STRENGTH	D790	54 MPA
ELONGATION	D638	1.5 %
HEAT DEFLECTION TEMP (66 PSI)	D648	177 °C
TENSILE MODULUS	D638	2577 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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