



NYLON 12

PRODUCTION GRADE THERMOPLASTIC FOR FDM

DESCRIPTION:

NYLON 12 PARTS BUILT ON A FORTUS 3D PRODUCTION SYSTEM ARE THE TOUGHEST IN THE INDUSTRY, EXHIBITING 100-300 PERCENT BETTER ELONGATION AT BREAK AND SUPERIOR FATIGUE RESISTANCE OVER ANY OTHER ADDITIVE MANUFACTURING TECHNOLOGY. NYLON OFFERS THE BEST Z-AXIS LAMINATION AND HIGHEST IMPACT STRENGTH OF ANY FDM THERMOPLASTIC, AS WELL AS EXCELLENT CHEMICAL RESISTANCE.

APPLICATIONS:

FDM NYLON 12 IS IDEAL FOR APPLICATIONS THAT DEMAND HIGH FATIGUE ENDURANCE, INCLUDING REPETITIVE SNAP FITS AND FRICTION-FIT INSERTS. AEROSPACE AND AUTOMOTIVE APPLICATIONS INCLUDE CUSTOM PRODUCTION TOOLING, JIGS AND FIXTURES, AND PROTOTYPES FOR INTERIOR PANELING, LOW-HEAT AIR-INTAKE COMPONENTS AND ANTENNA COVERS. FOR PRODUCT DEVELOPMENT IN CONSUMER GOODS, FDM NYLON 12 MAKES DURABLE PROTOTYPES FOR SNAP-FIT PANELS AND IMPACT-PROTECTIVE COMPONENTS.



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

NYLON 12 AF

PROPERTY	ASTM	METRIC UNITS
FLEXURAL MODULUS*	D790	1276 MPA
FLEXURAL STRENGTH*	D790	61 MPA
ELONGATION AT BREAK	D638	30 %
TENSILE STRENGTH YEILD*	D638	32 MPA
TENSILE MODULUS*	D638	1282 MPA

* Along XZ AXIS

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