

NEXT

SLA RESIN TECHNOLOGY

DESCRIPTION:

NEXT IS AN EXTREMELY DURABLE STEREO LITHOGRAPHY (SLA) RESIN THAT PRODUCES VERY ACCURATE PARTS WITH HIGH FEATURE DETAIL. NEXT IS A NEXT GENERATION OF MATERIAL THAT FACILITATES THE PRODUCTION OF TOUGH, COMPLEX PARTS WITH IMPROVED MOISTURE RESISTANCE AND GREATER THERMAL PROPERTIES.

APPLICATIONS:

NEXT PRODUCES PARTS THAT ARE MUCH MORE RESISTANT TO BREAKAGE THAN PARTS MADE WITH STANDARD SL RESINS. IT IS IDEAL FOR FUNCTIONAL END-USE PERFORMANCE PROTOTYPES, LIKE: SNAP-FIT DESIGNS, IMPELLERS, DUCT WORK, CONNECTORS AND ELECTRONIC COVERS, AUTOMOTIVE HOUSINGS AND DASHBOARD ASSEMBLIES, PACKAGING AND SPORTING GOODS.

MARKET SEGMENTS INCLUDE: AEROSPACE, AUTOMOTIVE, CONSUMER PRODUCTS AND ELECTRONICS, LOW-VOLUME MANUFACTURING APPLICATIONS WHERE TOUGHNESS IS REQUIRED.



NEXT

PROPERTY	ASTM	METRIC UNITS
TENSILE MODULUS	D638M	2,370 –2,490 MPA
TENSILE STRENGTH AT BREAK	D638M	31.0 –34.6 MPA
TENSILE STRENGTH AT YIELD	D638M	41.1 –43.3 MPA
ELONGATION AT BREAK	D638M	8 –10 %
ELONGATION AT YIELD	D638M	3 %
FLEXURAL STRENGTH	D790M	67.8 –70.8 MPA
FLEXURAL MODULUS	D790M	2,415 –2,525 MPA
HARDNESS (SHORE D)	D2240	82
IZODIMPACT (NOTCHED)	D256A	0.47 –0.52 J/CM
WATER ABSORPTION	D570-98	0.39 –0.41%

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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