

SLS Materials

Selective Laser Sintering (SLS)

We can convert your CAD files into 3D objects, dimensionally accurate very fast, using the selective laser sintering method. DuraForm PA Nylon is ideal mechanical stiffness and durability of parts requiring actual testing and a good RP material and chemically resistant to alkaline, hydro-carbonates, fuels as well as solvents.

Process Selective Laser Sintering / Laser Sintering

Product:	DuraForm PA Nylon – Color Natural White
Tensile Strength (ASM D638):	43 MPa 6,231 PSI
Tensile Modulus (ASM D638):	1,586 MPa 230,000 PSI
Elongation @ Break % (ASTM D638):	14%
Flexural Strength (ASTM D790):	48 MPa 6,962 PSI
Flexural Modulus (ASTM D790):	1,387 MPa 201,000 PSI
Impact Strength notched:	32 J/cm 6 ft-lb/in
Impact Strength unnotched:	336 J/cm 6 ft-lb/in
Heat Deflection Temperature (ASTM D648):	@ .45 MPa 180 °C @ 66 PSI 356 °F @ 1.82 MPa 95 °C @ 264 PSI 203 °F
Flammability UL 94:	HB
Applications:	Excellent tab strength, engine components, ducts, housings, gear teeth, and impellers.

Disclaimer: All tolerance specifications reflect the approximate range of a process's capabilities and should be viewed only as a guide. Actual capabilities are dependent upon manufacturing, equipment, material, and part requirements.