

Nylon 12 PA

TECHNOLOGY: MJF

APPLICATIONS: Engineered to produce final parts and functional prototypes with fine detail and dimensional accuracy across a variety of industries.

DESCRIPTION: Robust thermoplastic produces high density parts with balanced property profiles and strong structures. Provides excellent chemical resistance to oils, greases, aliphatic hydrocarbons, and alkalis. Ideal for complex assemblies, housings, enclosures, and watertight applications. Biocompatibility certifications—meets USP Class I-VI and US FDA guidance for Intact Skin Surface Devices.

FEATURES: Strong. Excellent chemical resistance.

Color Options: Black

TECHNICAL DATA

PROPERTY	ASTM	METRIC UNITS
Tensile Strength	D638M	48 MPa
Modulus of Elasticity, Youngs Modulus	D638M	1700-XY, 1800-Z MPa
Elongation Break (%)	D638M	20%-XY, 15%-Z
Flexural Strength	D790M	65 MPa /9425 psi
Flexural Modulus	D790M	1730 MPa/251 ksi
IZOD Impact Strength (notched)	D256A	3.5 kJ/m ²
Heat Deflection Temperature @ 0.45 MPa/66 psi, (°C)	D648	175 °C

