PROTOLABS
Manufacturing. Accelerated.

Industrial FDM

Markforged Onyx

Micro-carbon-fiber filled nylon for stiff, dimensionally stable parts with excellent surface finish.

Key Attributes

High stiffness-to-weight, good dimensional stability and heat resistance, very good surface finish.

Properties

Property	Value (Imperial)	Value (Metric)
Maximum Part Size	12.992" x 10.629" x 7.874"	330 × 270 × 200 mm
Minimum Feature Size	.039"	1.0 mm
Tensile Strength	4.4-5.8 ksi	30–40 MPa
e_modulus	203.1-290.1 ksi	1.4–2.0 GPa (orientation dependent)
Heat Deflection	230-293 °F	110–145 °C
Elongation	1–3%	1–3%



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