

# MPU 100

**TECHNOLOGY:** Carbon DLS

**APPLICATIONS:** Medical capital equipment and single-use medical devices.

**DESCRIPTION:** MPU 100 is a rigid plastic combining the properties of biocompatibility, mechanical strength, and sterilizability with abrasion and chemical resistance. Strong and durable enough for medical environments. Maintains biocompatibility post-sterilization. Sterilizable with ethylene oxide, e-beam, and gamma.

**FEATURES:** Production-ready, medical-grade polymer with engineering-grade mechanical properties. Compatible with cold sterilization techniques. Passes the following biocompatibility tests of ISO 10993-5, ISO 10993-10, and USP VI designation for plastics. Master file available with FDA. Certificate of Analysis is available upon request.

Color Options: White

## TECHNICAL DATA

PROPERTY	ASTM	METRIC UNITS
Tensile Strength	D638M	38 MPa
Modulus of Elasticity, Youngs Modulus	D638M	1,200 MPa
Elongation Break (%)	D638M	25 %
Flexural Strength	D790M	44 MPa
Flexural Modulus	D790M	1,000 MPa
IZOD Impact Strength (notched)	D256A	29 J/m
Heat Deflection Temperature @ 0.45 MPa/66 psi, (°C)	D648	48 °C

