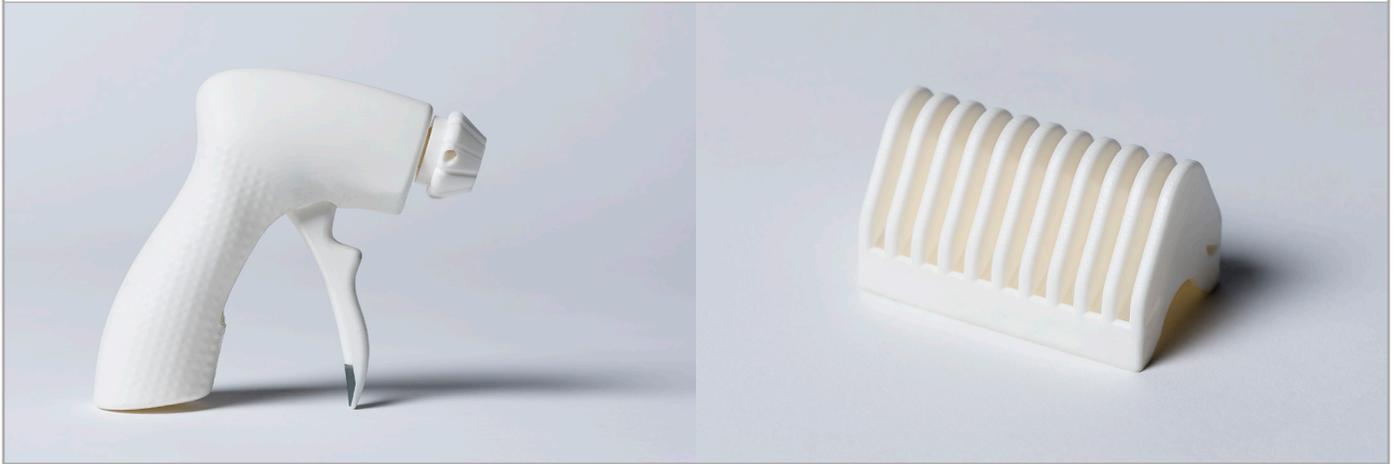


# MPU 100

**Technology:** Carbon DLS

**COLOR OPTIONS:**  White


**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 poststerilization. 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.

## 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        |