



# COR Bio

COR Bio features an unprecedented combination of toughness, biocompatibility, and autoclavability – a critical triad for end-use healthcare and consumer applications.

| <u>Mechanical Properties</u>            | <u>Metric</u> | <u>U.S.</u> | <u>Method</u> |
|---|---------------|-------------|---------------|
| Tensile Modulus                         | 2.2 GPa       | 319 ksi     | ASTM D638     |
| Ultimate Tensile Strength               | 63 MPa        | 9.1 ksi     | ASTM D638     |
| Tensile Toughness                       | >35 MPa       | > 5 ksi     | ASTM D638     |
| Elongation at Break                     | 100 ± 20%     |             | ASTM D638     |
| Flexural Modulus                        | 1.5 GPa       | 218 ksi     | ASTM D790     |
| Ultimate Flexural Strength              | 47 MPa        | 6.8 ksi     | ASTM D790     |
| Impact Strength (Un-Notched IZOD)       | >500 J/m      |             | ASTM D256     |
| <u>Thermal Properties</u>               |               |             |               |
| Glass Transition Temperature (Tg) (DSC) | 135 °C        | 275 °F      | ASTM E1356    |
| Tg (DMA, Loss Modulus Curve @ 1Hz)      | 133°C         | 271 °F      | ASTM D4065    |
| <u>Biological Properties</u>            |               |             |               |
| In Vitro Cytotoxicity                   | Grade 0       |             | ISO 10993-5   |

*polySpectra helps innovative engineers 3D print end-use components that they can trust, using the world's most rugged photopolymer resins.*

**Make it real.**