



PC-ISO™ (*polycarbonate-ISO*), an industrial thermoplastic, which in its raw state, is bio-compatible (ISO 10993 USP Class VI) and can be gamma or EtO sterilized. PC-ISO is commonly used in food and drug packaging and medical device manufacturing because of the material's strength and medical compatibility. When combined with a Fortus® 3D Production System, PC-ISO gives you parts that can be used for conceptual modeling, functional prototyping and end-use parts.

MECHANICAL PROPERTIES	TEST METHOD	ENGLISH	METRIC
Tensile Strength [Type 1, 0.125", 0.2"/min]	ASTM D638	8,300 psi	57 MPa
Tensile Modulus [Type 1, 0.125", 0.2"/min]	ASTM D638	289,800 psi	2,000 MPa
Tensile Elongation [Type 1, 0.125", 0.2"/min]	ASTM D638	4%	4%
Flexural Strength [Method 1, 0.05"/min]	ASTM D790	13,100 psi	90 MPa
Flexural Modulus [Method 1, 0.05"/min]	ASTM D790	310,400 psi	2,100 MPa
IZOD Impact, notched [Method A, 23 °C]	ASTM D256	1.6 ft-lb/in	86 J/m
IZOD Impact, un-notched [Method A, 23 °C]	ASTM D256	1 ft-lb/in	53 J/m

THERMAL PROPERTIES	TEST METHOD	ENGLISH	METRIC
Heat Deflection (HDT) @ 66 psi	ASTM D648	271 °F	133 °C
Heat Deflection (HDT) @ 264 psi	ASTM D648	260 °F	127 °C
Glass Transition (Tg)	DSC (SSYS)	322 °F	161 °C
Vicat Softening	ISO 306	282 °F	139 °C
Melting Point	-----	Not Applicable	Not Applicable

ELECTRICAL PROPERTIES	TEST METHOD	VALUE RANGE
Volume Resistivity	ASTM D257	1.5 x 10 ¹⁴ - 8.0 x 10 ¹³ ohm
Dielectric Constant	ASTM D150-98	3.0 - 2.8
Dissipation Factor	ASTM D150-98	.0009 - .0005
Dielectric Strength	ASTM D149-09	370 - 70 V/mil

OTHER	TEST METHOD	VALUE
Specific Gravity	ASTM D792	1.2
Flame Classification	UL94	HB

