

Ultem 1010 – Spec Sheet

(to be used on FDM® rapid prototyping machines)

Ultem 1010 is a high performance polymer available in black and natural color.

Mechanical Properties	Value	Unit	Test Method
Tensile Modulus	2775	MPa	ASTM D638
Tensile Stress, Type I, 5mm/min	63	MPa	ASTM D638
Tensile Elongation at Break	3.7	%	ASTM D638
Flexural Modulus 1.3mm/min	2815	MPa	ASTM D290
Izod impact, notched, 23 °C	43	J/m	ASTM D256
Izod impact, unnotched, 23 °C	329	J/m	ASTM D256

Electrical Properties	Value	Unit	Test Method
Volume Resistivity	1*10 ⁻¹⁴	Ohm	ASTM D257

Thermal Properties	Value	Unit	Test Method
HDT, 1.82 MPa, 3.2mm	213	°C	ASTM D648
Coefficient of thermal expansion – flow	48	µm/(m*°C)	ASTM E831

Physical Properties	Value	Unit	Test Method
Density	1.27	g/ccm	ASTM D792

The given values are typical values only, which are not intended for design or specification purposes. Test parts were printed on a Stratasys® Fortus 380 mc printer under standard parameters. All parts were printed in flat XY-orientation.

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