ABS X-TREME X130 – Spec Sheet

(to be used on FDM® rapid prototyping machines)

ABS X-Treme X130 is a general purpose ABS filament available in black, white, grey, dark grey, blue, red, orange, yellow, green and natural. It has balanced properties and is suitable for a wide variety of applications.

Mechanical Properties	Value	Unit	Test Method
Tensile Modulus	2068	MPa	ASTM D638
Tensile Stress, Type I, 5mm/min	24	MPa	ASTM D638
Tensile Strain, Type I, 5mm/min	7.1	%	ASTM D638
Flexural Modulus 1.3mm/min	1997	MPa	ASTM D290
Izod impact, notched, 23 °C	161	J/m	ASTM D256
Izod impact, unnotched, 23 °C	332	J/m	ASTM D256

Electrical Properties	Value	Unit	Test Method
Volume Resistivity	$4.17*10^{14}$	Ohm*cm	ASTM D257

Thermal Properties	Value	Unit	Test Method
HDT, 1.82 MPa, 3.2mm, unannealed	100	°C	ASTM D648
Coefficient of themal expansion – flow	76.3	µm/(m*°C)	ASTM E831

Physical Properties	Value	Unit	Test Method
HDT, 1.82 MPa, 3.2mm	103	°C	ASTM D648
Coefficient of thermal expansion – flow	76.0	µm/(m*°C)	ASTM E831
Density	1.04	g/ccm	ASTM D792

Flame Characteristics	Test Method
UL94 Flame Class Rating, 3.0mm	UL94

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.