

## **ABS X-TREME X100 – Spec Sheet**

(to be used for FDM® rapid prototyping machines)

<b>MECHANICAL PROPERTIES</b>	<b>METRIC</b>	<b>TEST METHOD</b>
Tensile Strength, Ultimate (Type 1, 0.125", 0.2"/min)	31 MPa	ASTM D638
Tensile Strength, Yield (Type 1, 0.125", 0.2"/min)	30 MPa	ASTM D638
Tensile Modulus (Type 1, 0.125", 0.2"/min)	2,150 MPa	ASTM D638
Tensile Elongation at Break (Type 1, 0.125", 0.2"/min)	5%	ASTM D638
Tensile Elongation at Yield (Type 1, 0.125", 0.2"/min)	2,5%	ASTM D638
IZOD Impact, notched (Method A, 23°C)	106 J/m	ASTM D256

<b>MECHANICAL PROPERTIES</b>	<b>METRIC</b>	<b>TEST METHOD</b>
Flexural Strength (Method 1, 0.05"/min)	58 MPa	ASTM D790
Flexural Modulus (Method 1, 0.05"/min)	2,100 MPa	ASTM D790
Flexural Strain at Break (Method 1, 0.05"/min)	2%	ASTM D790

<b>THERMAL PROPERTIES</b>	<b>METRIC</b>	<b>TEST METHOD</b>
Heat Deflection (HDT) @ 66 psi	96°C	ASTM D648
Heat Deflection (HDT) @ 264 psi	82°C	ASTM D648
Glass Transition Temperature (Tg)	103°C	DSC

<b>ELECTRICAL PROPERTIES</b>	<b>VALUE RANGE</b>	<b>TEST METHOD</b>
Volume Resistivity	$2.6 \times 10^{15} - 5.0 \times 10^{16}$ ohm-cm	ASTM D257
Dielectric Constant	2.2 - 2.8	ASTM D150-98
Dissipation Factor	0.0046 - 0.0053	ASTM D150-98

## Colors ABS X-TREME X100:

ABS X-TREME X100 is available in different colors: natural, black, grey, white, blue, orange, red - custom colors on request.

	Dimension SST1200 SST768	Dimension BST1200 BST768 SHDM-1000	Prodigy Prodigy	Prodigy Plus Prodigy Plus
 natural	✓	✓	✓	✓
 black	✓	✓	✓	✓
 white	✓	✓	✓	✓
 light grey	✗	✗	✗	✗
 blue	✗	✗	✗	✗
 orange	✗	✗	✗	✗
 red	✗	✗	✗	✗
 glow in the dark	✗	✗	✗	✗
 BAW Support	✗	✓	✓	✗
 Custom Colors*	✓	✓	✓	✓



\*available on request

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