

ABSplus is up to 40 percent stronger than standard ABS material and is an ideal material for conceptual modeling, functional prototyping, manufacturing tools, and end-use-parts. The marriage of ABSplus with Prototyping 3D Production gives you the ability to create real parts direct from digital files that are stronger, smoother, and with high feature detail.



Mechanical Properties <sup>1</sup>	Test Method	English	Metric
Tensile Strength (Type 1, 0.125", 0.2"/min)	ASTM D638	5,200 psi	36 MPa
Tensile Modulus (Type 1, 0.125", 0.2"/min)	ASTM D638	329,500 psi	2,265 MPa
Tensile Elongation (Type 1, 0.125", 0.2"/min)	ASTM D638	4%	4%
Flexural Strength (Method 1, 0.05"/min)	ASTM D790	7,604 psi	52 MPa
Flexural Modulus (Method 1, 0.05"/min)	ASTM D790	319,737 psi	2,198 MPa
IZOD Impact, notched (Method A, 23°C)	ASTM D256	1.8 ft-lb/in	96 J/m

Thermal Properties <sup>3</sup>	Test Method	English	Metric
Heat Deflection (HDT) @ 66 psi	ASTM D648	204°F	96°C
Heat Deflection (HDT) @ 264 psi	ASTM D648	180°F	82°C
Coefficient of Thermal Expansion	ASTM D696	4.90 E -05 in/in/°F	-----
Melt Point	-----	Not Applicable <sup>2</sup>	Not Applicable <sup>2</sup>

Other <sup>3</sup>	Test Method	Value
Specific Gravity	ASTM D792	1.04

► See reverse for color options and system availability.

The information presented are typical values intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. End-use material performance can be impacted (+/-) by, but not limited to, part design, end-use conditions, test conditions, etc. Actual values will vary with build conditions. Tested parts were built on 200mc @ 0.010" (0.254 mm) slice. Product specifications are subject to change without notice.

<sup>1</sup> Build orientation is on side long edge. <sup>2</sup> Due to amorphous nature, material does not display a melting point. <sup>3</sup> Literature value unless otherwise noted.



System Availability	Layer Thickness Capability	Support Structure	Available Colors
200mc	0.010 inch (0.254 mm) 0.007 inch (0.178 mm)	Soluble Supports	<ul style="list-style-type: none"> <li>■ Ivory</li> <li>■ Black</li> <li>■ Dark Grey</li> <li>■ Red</li> <li>■ Blue</li> <li>■ Olive Green</li> <li>■ Nectarine</li> <li>■ Fluorescent Yellow</li> </ul>

## At the core: Advanced FDM<sup>®</sup> technology

FDM — Fused Deposition Modeling — technology. FDM is the industry's leading additive fabrication technology, and the only one that uses production grade thermoplastics, enabling the most durable parts.

Our systems use a wide range of thermoplastics with advanced mechanical properties so your parts can endure high heat, caustic chemicals, sterilization, and high impact applications.

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