



ABSplus is up to 40 percent stronger than standard ABS material and is an ideal material for conceptual prototyping through design verification through direct digital manufacturing. The marriage of ABSplus with FDM technology gives you the ability to create Real Parts™ direct from digital files that are stronger, smoother, and with more feature detail. Refer to the FDM System Material Availability spec sheet for system availability and color options.

Mechanical Properties ¹	Test Method	Imperial	Metric
Tensile Strength, Type 1, 0.2 in/min	ASTM D638	5,295 psi	36 MPa
Tensile Modulus, Type 1, 0.2 in/min	ASTM D638	329,500 psi	2,265 MPa
Tensile Elongation, Type 1, 0.125 in/min	ASTM D638	4 %	4 %
Flexural Strength	ASTM D790	7,604 psi	52 MPa
Flexural Modulus	ASTM D790	319,737 psi	2,198 MPa
IZOD Impact, notched	ASTM D256	1.8 ft-lb/in	96 J/m

Thermal Properties	Test Method	Imperial	Metric
Heat Deflection Temperature @ 66 psi	ASTM D648	204° F	96° C
Heat Deflection Temperature @ 264 psi	ASTM D648	180° F	82° C
Coefficient of Thermal Expansion	ASTM D696	4.90-05 in/in/F	-----
Melt Point	-----	Not Applicable ²	Not Applicable ²

Other	Test Method	Value
Specific Gravity	ASTM D792	1.04

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.

¹ Build orientation is on side edge. ² Do to amorphous nature, material does not display a melting point.