ABS

A true industrial thermoplastic, ABS is widely used throughout industry. When combined with the Fused Deposition Modeling (FDM) systems by Stratasys, this material is ideal for the rapid production of prototypes, tooling and the direct (tool-less) manufacturing of production parts.

Mechanical Properties ¹	Test Method	Imperial	Metric
Tensile Strength, Type 1, 0.125 Tensile Modulus, Type 1, 0.125 Tensile Elongation, Type 1, 0.125 Flexural Strength Flexural Modulus IZOD Impact, un-notched IZOD Impact, notched	ASTM D638 ASTM D638 ASTM D638 ASTM D790 ASTM D790 ASTM D256 ASTM D256	3,2000 psi 236,000 psi 6 % 6,000 psi 266,000 psi 4 ft-lb/in 2 ft-lb/in	22 MPa 1,627 MPa 6 % 41 MPa 1,834 MPa
Thermal properties	Test Method	Imperial	Metric
Heat Deflection (HDT) Glass Transition (Tg) Coefficient of Thermal Expansion	ASTM D648 DMA (SSYS)	205° F 219° F 5.60F-05 in/in/F	96° C 104° C
Melt Point		Not Applicable ²	Not Applicable ²
·	Test Method	0.002 00	Not Applicable ²

APPEARANCE

- White available on all FDM systems
- Colors available on the FDM Maxum:
 - Black, Blue, Green, Grey (light), Grey (steel), Red and Yellow
 - Custom color program available
- · Colors available on FDM Prodigy Plus:
 - Black, Blue, Green, Red and Yellow
 - Custom color program available

SYSTEM AVAILABILITY

- FDM Maxum
- FDM Titan **TI**
- FDM Vantage SE
- FDM Vantage S
- FDM Vantage i (when configured with ABS)
- FDM Prodigy Plus

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, etc. Actual values will vary with build conditions.

For more information about Stratasys systems and materials, contact your representative +1 888.480.3548 or visit www.stratasys.com



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