

Stratasys® ABSplus

Category : Polymer , Rapid Prototyping Polymer , Thermoplastic , ABS Polymer

Material Notes:

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. Information provided by Stratasys®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Stratasys-ABSplus.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	36.0 MPa	5220 psi	Type 1, 2"/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Tensile Modulus	2.265 GPa	328.5 ksi	Type 1, 2"/min; ASTM D638
Flexural Strength	52.0 MPa	7540 psi	ASTM D790
Flexural Modulus	2.198 GPa	318.8 ksi	ASTM D790
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	88.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	49.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	96.0 $\text{Å}^\circ\text{C}$	205 $\text{Å}^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.0 $\text{Å}^\circ\text{C}$	180 $\text{Å}^\circ\text{F}$	ASTM D648

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