

Stratasys® ABS

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

Material Notes:

ABS is a strong, durable production-grade thermoplastic used across many industries. ABS is an ideal material for conceptual prototyping through design verification through direct digital manufacturing. The marriage of ABS with FDM technology gives you the ability to create Real Parts, direct from digital files, in a variety of standard and custom colors. Refer to the FDM System Material Availability spec sheet for system availability and color options. Information provided by Stratasys®

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Ultimate	22.0 MPa	3190 psi	Type 1, 2"/min; ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D638
Tensile Modulus	1.627 GPa	236.0 ksi	ASTM D638
Flexural Strength	41.0 MPa	5950 psi	ASTM D790
Flexural Modulus	1.834 GPa	266.0 ksi	ASTM D790
Izod Impact, Notched	1.0678 J/cm	2.0004 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.1356 J/cm	4.0009 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	101 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	56.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	90.0 $\text{Å}^\circ\text{C}$	194 $\text{Å}^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	76.0 $\text{Å}^\circ\text{C}$	169 $\text{Å}^\circ\text{F}$	ASTM D648
Glass Transition Temp, Tg	104 $\text{Å}^\circ\text{C}$	219 $\text{Å}^\circ\text{F}$	DSC (SSYS)
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.4	2.4	IEC 60250
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dielectric Strength	32.0 kV/mm	813 kV/in	IEC 60112

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