

Stratasys® ABS-M30i

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

Material Notes:

ABS-M30i is a high strength material well suited for the medical, pharmaceutical and food packaging industries. Parts manufactured with ABS-M30i material are biocompatible (ISO 10993 certified) and can be gamma or EtO sterilized. When combined with Fortus 3D Production Systems, ABS-M30i gives you biocompatible Real Parts, with excellent mechanical properties that are well suited for conceptual modeling, functional prototyping, manufacturing tools, and end-use-parts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Stratasys-ABS-M30i.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109.5	109.5	ASTM D785
Tensile Strength, Yield	36.0 MPa	5220 psi	ASTM D638
Elongation at Break	52 %	52 %	flexural; ASTM D790
Elongation at Yield	4 %	4 %	ASTM D638
Tensile Modulus	2.413 GPa	350.0 ksi	ASTM D638
Flexural Strength	61 MPa	8800 psi	ASTM D790
Flexural Modulus	2.317 GPa	336.1 ksi	ASTM D790
Izod Impact, Notched	1.39 J/cm	2.60 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.83 J/cm	5.30 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	88.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	49.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E831
	@Temperature -40.0 - 37.8 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 100 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	84.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	47.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E831
	@Temperature -40.0 - 37.8 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 100 $\text{Å}^\circ\text{F}$	
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

Thermal Properties	Metric °C	English	Comments
Glass Transition Temp, Tg	108 °C	226 °F	DSC
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Strength	28.0 kV/mm	711 kV/in	IEC 60112

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