

Stratasys® ABSi

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

Material Notes:

Stratasys is the only company that gives engineers the ability to manufacture real ABSi industrial thermoplastic parts direct from digital files. ABSi parts can be used from conceptual prototyping through design verification through direct digital manufacturing. It's strength is superior to ABS and the translucent nature of ABSi is beneficial for monitoring material flow and light transmission, most commonly used for medical and automotive applications. When combined with Stratasys FDM (Fused Deposition Modeling) systems, ABSi gives you Real Parts that are visually unique, dimensionally accurate, durable and hold shape over time. Information provided by Stratasys®

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785
Tensile Strength, Ultimate	37.0 MPa	5370 psi	ASTM D638
Elongation at Break	3.1 %	3.1 %	ASTM D638
Tensile Modulus	1.915 GPa	277.7 ksi	ASTM D638
Flexural Strength	61.0 MPa	8850 psi	ASTM D790
Flexural Modulus	1.82 GPa	264 ksi	ASTM D790
Izod Impact, Notched	1.014 J/cm	1.900 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.189 J/cm	4.101 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	121 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	67.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	87.0 $\text{Å}^\circ\text{C}$	189 $\text{Å}^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	73.0 $\text{Å}^\circ\text{C}$	163 $\text{Å}^\circ\text{F}$	ASTM D648
Glass Transition Temp, Tg	116 $\text{Å}^\circ\text{C}$	241 $\text{Å}^\circ\text{F}$	DSC (SSYS)
Flammability, UL94	HB	HB	

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