

Stratasys® PC-ABS

Category : Polymer , Rapid Prototyping Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

PC-ABS (polycarbonate-ABS) is one of the most widely used industrial thermoplastics. PC-ABS offers the most desirable properties of both materials - the superior mechanical properties and heat resistance of PC and the excellent features of ABS. PC-ABS blends are commonly used in automotive, electronics and telecommunications applications. When combined with Stratasys FDM (Fused Deposition Modeling) systems, PC-ABS gives you Real Parts, for conceptual prototyping through design verification through direct digital manufacturing. Information provided by Stratasys®

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Ultimate	34.8 MPa	5050 psi	Type 1, 2"/min; ASTM D638
Elongation at Break	4.3 %	4.3 %	ASTM D638
Tensile Modulus	1.827 GPa	265.0 ksi	Type 1, 2"/min; ASTM D638
Flexural Strength	50.0 MPa	7250 psi	ASTM D790
Flexural Modulus	1.863 GPa	270.2 ksi	ASTM D790
Izod Impact, Notched	1.23 J/cm	2.30 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.26 J/cm	6.11 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	73.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	41.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	110 $\text{Å}^\circ\text{C}$	230 $\text{Å}^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	96.0 $\text{Å}^\circ\text{C}$	205 $\text{Å}^\circ\text{F}$	ASTM D648
Vicat Softening Point	112 $\text{Å}^\circ\text{C}$	234 $\text{Å}^\circ\text{F}$	ASTM D1525
Glass Transition Temp, Tg	125 $\text{Å}^\circ\text{C}$	257 $\text{Å}^\circ\text{F}$	DSC (SSYS)

Thermal Properties	^{HB} Metric	^{HB} English	Comments
	@Thickness 0.850 mm	@Thickness 0.0335 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.0	3.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	3.1	3.1	IEC 60250
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60112

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