

Additive Inc - **RAPID PROTOTYPING**

Professional 3D Printing -PC (polycarbonate)



Call: (800) 479-4330 /
www.additiveinc.com

The information presented are typical values intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values will vary with build conditions.



Additive, Inc
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About Us

Additive, Inc is among leading rapid prototyping companies specializing in high quality FDM (Fused Deposition Modeling) and PolyJet rapid prototyping services. The FDM process is ideal for conceptual modeling, functional prototyping, manufacturing tools, and end-use-parts. While the PolyJet process will produce high quality and fine detailed prototypes. Whatever your rapid prototyper needs, Additive, Inc will be able to quickly produce your parts.

Get your parts FAST! We own and operate all of our FDM and PolyJet rapid prototyping services machines. This means we don't have to send your parts to a secondary service bureau and mark-up the price, making the process faster and more affordable for you.

Additive, Inc (among leading rapid prototyping companies) provides you or your company the tools for a fast, easy and affordable rapid prototyper.

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PC (polycarbonate)



A true industrial thermoplastic, PC(polycarbonate) is widely used in automotive, aerospace, medical and many other applications. PC offers accuracy, durability and stability, creating strong parts that withstand functional testing.

Details

MECHANICAL PROPERTIES	TEST METHOD	ENGLISH	METRIC
Tensile Strength (Type 1, 0.125", 0.2"/min)	ASTM D638	9,800 psi	68 MPa
Tensile Modulus (Type 1, 0.125", 0.2"/min)	ASTM D638	330,700 psi	2,300 MPa
Tensile Elongation (Type 1, 0.125", 0.2"/min)	ASTM D638	5%	5%
Flexural Strength (Method 1, 0.05"/min)	ASTM D790	15,100 psi	104 MPa
Flexural Modulus (Method 1, 0.05"/min)	ASTM D790	324,000 psi	2,200 MPa
IZOD Impact, notched (Method A, 23°C)	ASTM D256	1 ft-lb/in	53 J/m
IZOD Impact, un-notched (Method A, 23°C)	ASTM D256	6 ft-lb/in	320 J/m

THERMAL PROPERTIES	TEST METHOD	ENGLISH	METRIC
Heat Deflection(HDT)@ 66 psi, 0.125" unannealed	ASTM D648	280°F	138°C
Heat Deflection(HDT)@ 264 psi, 0.125" unannealed	ASTM D648	261°F	127°C
Vicat Softening	ASTM D1525	282°F	139°C
Glass Transition Temperature (Tg)	DMA (SSYS)	322°F	161°C

Melt Point	-----	Not Applicable	Not Applicable
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ELECTRICAL PROPERTIES	TEST METHOD	VALUE RANGE
Volume Resistivity	ASTM D257	2.0x10e14 - 6.0x10e13 ohms
Dielectric Constant	ASTM D150-98	3.0 - 2.8
Dissipation Factor	ASTM D150-98	.0006 - .0005
Dielectric Strength	ASTM D149-09, Method A	360-80 V/mm

OTHER	TEST METHOD	VALUE RANGE
Specific Gravity	ASTM D792	1.2
Rockwell Hardness	ASTM D785	R115
Flame Classification	UL 94	HB
Coefficient of Thermal Expansion	ASTM E831	3.8E-05 in/in/°F
UL File Number	-----	E345258