

Additive Inc - RAPID PROTOTYPING

Professional 3D Printing - ABS M-30



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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ABS M-30



ABS M30 is the most popular FDM prototyping material we have. It can be up to 40% stronger than standard ABS making it perfect for a durable prototype. Because it is real ABS plastic, you can create parts out of the actual final production material. While some materials claim "like properties," ABS M30 will give you the actual material properties of ABS. It also comes in a variety of color options that are great for showing different components in an assembly.

Details

MECHANICAL PROPERTIES	TEST METHOD	ENGLISH	METRIC
Tensile Strength (Type 1, 0.125", 0.2"/min)	ASTM D638	5,200 psi	36 MPa
Tensile Modulus (Type 1, 0.125", 0.2"/min)	ASTM D638	350,000 psi	2,400 MPa
Tensile Elongation (Type 1, 0.125", 0.2"/min)	ASTM D638	4%	4%
Flexural Strength (Method 1, 0.05"/min)	ASTM D790	8,800 psi	61MPa
Flexural Modulus (Method 1, 0.05"/min)	ASTM D790	336,000 psi	2,300 MPa
IZOD Impact, notched (Method A, 23°C)	ASTM D256	2.6 ft-lb/in	139 J/m
IZOD Impact, un-notched (Method A, 23°C)	ASTM D256	5.3 ft-lb/in	283 J/m

THERMAL PROPERTIES	TEST METHOD	ENGLISH	METRIC
Heat Deflection(HDT)@ 66 psi, 0.125" unannealed	ASTM D648	204°F	96°C
Heat Deflection(HDT)@ 264 psi, 0.125" unannealed	ASTM D648	180°F	82°C
Vicat Softening Temperature (Rate B/50)	ASTM D1525	210°F	99°C

Glass Transition Temperature (Tg)	DMA (SSYS)	226°F	108°C
Coefficient of Thermal Expansion (flow)	ASTM E831	4.9E-05 in/in/°F	8.82E-05 mm/mm/°C
Coefficient of Thermal Expansion (xflow)	ASTM E831	4.7E-05 in/in/°F	8.46E-05 mm/mm/°C
Melt Point	-----	Not Applicable	Not Applicable

ELECTRICAL PROPERTIES	TEST METHOD	VALUE RANGE
Volume Resistivity	ASTM D257	4.0x10e14 - 5.0x10e13 ohms
Dielectric Constant	ASTM D150-98	2.9 - 2.7
Dissipation Factor	ASTM D150-98	.0052 - .0049
Dielectric Strength	ASTM D149-09, Method A	370 - 71 V/mm

OTHER	TEST METHOD	VALUE RANGE
Specific Gravity	ASTM D792	1.08
Rockwell Hardness	ASTM D785	109.5

Flame Classification	UL 94	HB (0.09", 2.50 mm)
UL File Number	-----	E345258