



ABS-M30 (FDM)

a StratasyS Material

STRONG, AFFORDABLE PROTOTYPING

Ideal for concept models and moderate requirement parts including functional prototypes, jigs, fixtures, manufacturing tools and production parts.



Colors Available



White



Black



Blue



Red



Natural

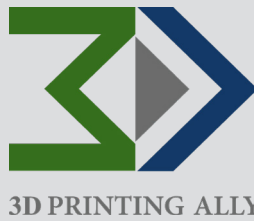


Dark Grey

Mechanical Properties ¹	Test Method	Result
Tensile Strength (Type 1, 0.125", 0.2"/min)	ASTM D638	5,200 psi
Tensile Modulus (Type 1, 0.125", 0.2"/min)	ASTM D638	350,000 psi
Tensile Elongation (Type 1, 0.125", 0.2"/min)	ASTM D638	4%
Flexural Strength (Method 1, 0.05"/min)	ASTM D790	8,800 psi
Flexural Modulus (Method 1, 0.05"/min)	ASTM D790	336,000 psi
IZOD Impact, notched (Method A, 23°C)	ASTM D256	2.6 ft-lb/in
IZOD Impact, un-notched (Method A, 23°C)	ASTM D256	5.3 ft-lb/in

Thermal Properties ²	Test Method	Result
Heat Deflection (HDT) @ 66 psi, 0.125" unannealed	ASTM D648	204°F
Heat Deflection (HDT) @ 264 psi, 0.125" unannealed	ASTM D648	180°F
Vicat Softening Temperature (Rate B/50)	ASTM D1525	210°F
Glass Transition (Tg)	DSC (SSYS)	226°F

3D Printing Ally makes no warranties of the materials for any particular application, nor does it make a warranty of any type, expressed or implied, including but not limited to, the warranties of merchantability for a particular purpose.



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Electrical Properties ³	Test Method	Result
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/mil

Other ²	Test Method	Result
Specific Gravity	ASTM D792	1.04
Flame Classification	UL94	HB (0.09", 2.50 mm)
Rockwell Hardness	ASTM D785	109.5
UL File Number	N/A	E345258

¹ Build orientation is on side long edge.

² Literature values unless otherwise noted.

³ All Electrical Property values were generated from the average of test plaques built with the default part density (solid). Test plaques were 4.0 x 4.0 x 0.1 inches (102 x 102 x 2.5 mm) and were built both in the flat and vertical orientation. The range of values is mostly the result of the difference in properties of test plaques built in the flat vs. vertical orientation.

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