

eABS Max

Technical Data Sheet

Modified on the basis of ABS, it has higher mechanical properties and UL94V-0 flame retardant performance. It is halogen-free, environment-friendly and flame retardant, reaching UL94V-0 level flame retardant, which is more fireproof and safer; High toughness and impact resistance, can print strong and durable parts; The thermal deformation temperature is high, so it can be used in some outdoor and high temperature applications.

Material Status	Mass Production
Characteristics	<ul style="list-style-type: none"> • Antiflaming • Sturdy and durable • Heat resistance • High toughness • High impact resistance
Applications	<ul style="list-style-type: none"> • Machinery • Automobile • Illuminate • Traffic • Mould • Electric • Information
Form	<ul style="list-style-type: none"> • Filament
Processing method	<ul style="list-style-type: none"> • 3D Print, FDM Print

	Testing method	Typical value
Physical Properties		
Density	GB/T 1033	1.05 g/cm ³
Melt Flow Index	GB/T 3682	60 (250°C/10kg)
Mechanical Properties		
Tensile Strength	GB/T 1040	45 MPa
Elongation at Break	GB/T 1040	30 %
Flexural Strength	GB/T 9341	58 MPa
Flexural Modulus	GB/T 9341	2400 MPa
IZOD Impact Strength	GB/T 1843	48 kJ/m ²
Thermal Properties		
Heat distortion Temperature	GB/T 1634	N/A
Continuous Service Temperature	IEC 60216	N/A
Maximum (short term) Use Temperature		N/A
Electrical Properties		
Insulation Resistance	DIN IEC 60167	N/A
Surface Resistance	DIN IEC 60093	N/A

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Recommended printing parameters

Extruder Temperature	240 - 270°C
Build Platform Temperature	95 - 110°C
Fan Speed	0%
Printing Speed	40 - 100mm/s

Based on 0.4 mm nozzle and Simplify 3D v.4.1.2. Printing conditions may vary with different nozzle diameters

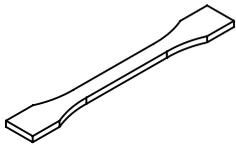
Drying Recommendations

N/A

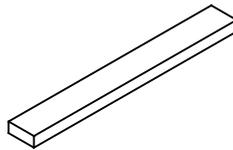
Notes

1. Dry the filaments (65°C/> 3h) before printing to achieve the best printing effect. It is recommended to use together with eBOX during printing.
2. The shrinkage of eABS Max material is large, so heat preservation should be paid attention to when printing, and it should be printed in a printer with closed chamber.

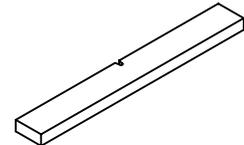
Mechanical Properties



Tensile testing specimen GB/T 1040



Flexural testing specimen GB/T 9341



Impact testing specimen GB/T 1043

The physical properties, mechanical properties, thermal properties, and electrical properties of the filament are obtained based on the injection molding spline test.

Print test condition:

Extruder Temperature	230-270°C
Build Platform Temperature	100°C
Outline/Perimeter Shells	4
Top/Bottom Layers	4
Infill Percentage	20%
Fan speed	0%
Printing speed	40mm/s

Based on 0.4 mm nozzle and Simplify 3D v.4.1.2.

Notice

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