

ABS 3D Printing Materials

Tough and Strong, yet Safe enough for kids to handle

3D Printers



ABS

ABS (Acrylonitrile butadiene styrene)

A common thermoplastic used to make light, rigid, molded products with good shock absorbance and wear resistance.

POLYMER PROPERTIES	ABS WHITE	ABS COLOURED
Print Temperature	240-245°C	243-248°C
Raft Temperature	235°C	235°C
First Layer Temperature	230°C	232°C
Print Base Material	Acrylic/ABS	Acrylic/ABS
Raft Required	Yes	Yes
Filament Diameter	3mm	3mm
Spool Capacity	1kg	1kg

Minimum wall thickness 2.5mm (1/10th inch) on walls over 75mm (3inch) long in either the x or y axis. Shrinkage and warping can occur on models and is purely geometry dependent.

*1kg ABS material = 58 cubic inches

PLA (Polylactic Acid)

A biodegradable, thermoplastic, derived from renewable resources, such as corn starch, used commonly in the medical and food industries.

POLYMER PROPERTIES	PLA SOLID	PLA TRANSLUCENT
Print Temperature	210-225°C	210-220°C
Raft Temperature	190°C	190°C
First Layer Temperature	200°C	200°C
Print Base Material	MDF/Acrylic	MDF/Acrylic
Raft Required	Optional	Optional
Filament Diameter	3mm	3mm
Spool Capacity	1kg	1kg

Shrinkage can occur on models and is purely geometry dependent.

*1kg PLA material = 48 cubic inches

PLA 3D Printing Materials

Easy to work with, environmentally friendly & safe

3D Printers



PLA



IMSI®/Design presents 3D Printers at: <http://www.turbocad.com/3Dprinters.aspx>

3D Printers & Materials



For more information email to 3Dprinters@imsidesign.com

For pre-sales questions or to order by telephone, call **1.800.833.8082** M-F, 7am-5pm PST (outside of USA call 1.415.483.8000)

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