



AB Materials - ABflex and ABS-tuff

EnvisionTEC's AB Materials are the closest prototype resins to production grade ABS Plastic. Finally, rapid prototyping/3D printing has a true production representation of ABS with the launch of the AB materials from EnvisionTEC. Combining AB Materials with patented DLP technology exclusively from EnvisionTEC gives you the absolute closest 3D representation available in the industry.

ABS-tuff is a high grade rapid prototyping resin providing the structural representation of ABS plastic.

ABflex provides the same structural representation of AB plastic with new flexibility characteristics.

Material Comparisons of Mechanical Properties*			
Description	ABS-tuff	ABflex	ABS Plastic
Tensile Strength	48.6 MPa	28.6 MPa	45 MPa
Elongation at Break	7%	14.6%	10%
Flexural Strength	2100 MPa	1400 MPa	2300 MPa
Hardness Shore D	83	77	N/A
Resin Specific Gravity	1.10 - 1.12 g/cm ³	1.10-1.12 g/cm ³	N/A

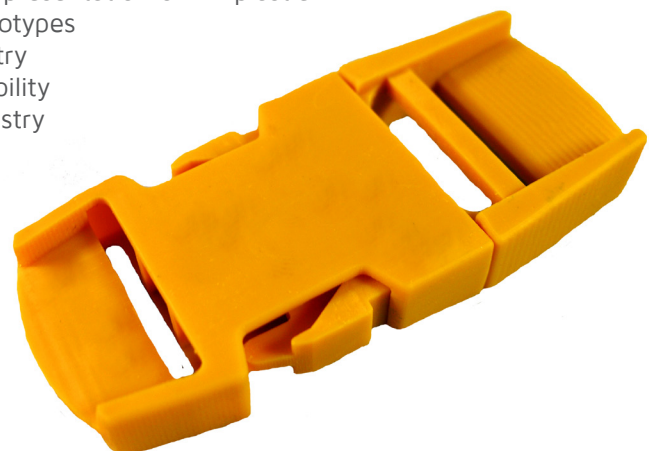
*All data provided is preliminary data and must be verified by the individual user.

Recommended Machines
Perfactory® 4 Standard with ERM, Perfactory® 4 Standard XL with ERM, Perfactory® 4 Mini XL with ERM, Perfactory® 4 Mini with ERM, Perfactory® 3 Mini Multi Lens

Applications
Aerospace, Animation and Entertainment, Architecture and Art, Automotive, Consumer Packaged Goods, Education, Electronics, Manufacturing, Sporting Goods, Toys

Material Properties

- » Closest prototype resin to production grade ABS Plastic
- » Provides sharpest production representation of AB plastic
- » Best utilized for functional prototypes
- » Best quality and value in industry
- » Extreme durability or flex capability
- » Best value per kilogram in industry



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