



# Tough PLA

Black

Tough PLA is closer to ABS in material properties than regular PLA, making it tougher, yet still a cost-effective method of printing larger parts. An FDM material, Tough PLA is best suited to prototypes that may under a bit of wear and tear.

## Properties Summary



## DESIGN GUIDELINES

Tough PLA builds best when there are no sharp corners or edges, so try to incorporate fillets and chamfers into your designs where possible.

Maximum Build Volume	200 mm x 175 mm x 180 mm
Min Wall Thickness	2 mm
Min Hole Diameter	2 mm
Minimum Part Clearance	1 mm
Minimum Debossed Detail	1.5 mm
Minimum Embossed Detail	1.5 mm
Maximum Unsupported Angle	45°

## MATERIAL DATA

Ultimate Tensile Strength	37 MPa
Tensile Modulus	1.8 GPa
Elongation at Failure	3.1%
Flexural Modulus	2.5 GPa
Maximum Safe Temperature	60°C

## SUBSCRIPTIONS/CREDITS INFORMATION

This material falls under the Standard FDM materials category for our subscription/credit pack customers.

**100g = 1 credit**

As this is an FDM material we generally recommend our Standard Finish unless the parts are to be used for particular aesthetic purposes.

Standard finish (FREE)

Still have questions? Contact us at [enquiries@printpool.co.uk](mailto:enquiries@printpool.co.uk) or give us a call on 01865 546430. We're always happy to help!