



ABS

Black

Most designers are familiar with ABS as it is commonly used in injection moulding, but considerations are somewhat different for 3D printed models. ABS is an excellent choice when higher heat resistance is needed than Tough PLA can offer.

Properties Summary

Hardness	<div style="width: 80%;"></div>
Surface Finish	<div style="width: 70%;"></div>
Cost	<div style="width: 20%;"></div>
Impact Resistance	<div style="width: 90%;"></div>

DESIGN GUIDELINES

ABS can warp during larger prints, so try to incorporate fillets, chamfers and ribs into your designs where possible to reduce the likelihood of this happening.

Maximum Build Volume	200 mm x 175 mm x 180 mm
Min Wall Thickness	2.5 mm
Min Hole Diameter	2.5 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	39 MPa
Tensile Modulus	1.6 GPa
Elongation at Failure	4.8%
Flexural Modulus	2.1 GPa
Maximum Safe Temperature	85°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 or give us a call on 01865 546430. We're always happy to help!