

## ABS-M30

Fused Deposition Modelling  
(FDM)



### General use material with a variety of colour options

ABS-M30 is 25-75% stronger than the standard ABS material and is ideal for any stage of manufacture: from concept modelling to functional prototyping, from jigs and fixtures to end-use parts. ABS-M30 is a particularly strong material, offering greater tensile, impact and flexural strength than standard ABS.

Layer bonding is significantly stronger than ABS, resulting in a more durable part that is well suited to realistic functional tests and high quality end-use applications.

#### Why choose ABS-M30?

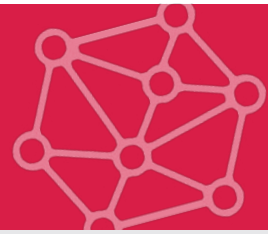
- Up to 70% stronger than standard ABS
- Better durability compared to standard ABS thanks to better layer bonding
- Good feature detail
- Available in 6 colours

#### Applications

- Concept parts
- Functional prototyping
- Manufacturing tools, jigs and fixtures
- Thermoform tools
- End-use parts

# ABS-M30

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General properties	Value (XY Axis)	Test method
Colour	Black Blue Dark Grey Ivory Red White	Visual
Part density	1.04 g/cm <sup>3</sup>	ASTM D792

Thermal properties	Value (XY Axis)	Test method
Heat deflection temperature (0.45Mpa)	96° C	ASTM D648
Heat deflection temperature (1.8Mpa)	82° C	ASTM D648

Mechanical properties	Value (XY Axis)	Test method
Tensile strength (ultimate)	32 MPa	ASTM D638
Tensile modulus	2230 MPa	ASTM D638
Elongation at break	7%	ASTM D638
Flexural strength	60 MPa	ASTM D790
Flexural strain at break	4%	ASTM D790
Flexural modulus	2060 MPa	ASTM D790
Impact strength – Izod (notched)	128 J/m	ASTM D256
Impact strength – Izod (un-notched)	300 J/m	ASTM D256

Other	Value (XY Axis)	Test method
Flammability classification	HB (2.5 mm)	UL94

Get a quote for your parts at [rapidfab.ricoh-europe.com](https://rapidfab.ricoh-europe.com)

Have a question? Call our friendly team on

**+44 (0) 800 304 7196**

Specifications are subject to change without notice.

The technical data indicated above is an average value of the test result of a part created under proper management and appropriate conditions.  
The value is for reference and is not guaranteed.