



## Product datasheet

# M-ABS

M-ABS is a transparent ABS filament, so strong, durable and impact resistant. Due to the low percentage of butadiene in M-ABS this filament smells much less unpleasant than ABS, and, moreover, also shows less warping.

The M-ABS polymer is inherently less impact resistant than ABS, but slightly modified our M-ABS filament is still approx. 3 times more impact resistant than any regular PLA in the market. The transparency of the polymer makes it also possible to manufacture deep opaque colours, if desired



### Dimensions

Size	Ø tolerance	Roundness
1,75mm	± 0,05mm	≥ 95%
2,85mm	± 0,10mm	≥ 95%

### Physical properties

Description	Testmethod	Typical value
Specific gravity	ASTM D792	1,06 g/cc
MFR 220°C/10kg	ASTM D1238	12,0 g/10 min
Tensile strength	ASTM D638	39,2 Mpa
Strain at break	ASTM D638	35%
Flexural modulus	ASTM D790	1830 Mpa
Impact strength Izod method 23°C	ISO 180/A	17 KJ/m <sup>2</sup>

### Thermal & optical properties

Description	Testmethod	Typical value
printing temp.	-	220-260°C
mellting temp.	ISO 294	210-240°C
Heat Deflection Temp.	ASTM 648	± 82°C
Transparancy	ASTM D1003	90%

### Colours:

M-ABS is available from stock in the five translucent colours transparent, red, yellow, green and blue, and in 5 opaque colours.

### Additional info:

Recommended temperature for heated bed is ± 90-100 °C.

M-ABS can be used on all common desktop FDM technology or FFF 3D printers.

Storage: Cool and dry (15-25 °C) and away from UV light. This enhances the shelf life significantly