

PrintaMent M-ABS

DATASHEET

Description

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.

Features

- Transparent, translucent
- Not the unpleasant smell of ABS
- High impact M-ABS
- Good chemical resistance
- Less warping than ABS

Colors

Clear – Black – White – Red- Blue - Lime Green – Gold - Yellow Transparent - Red Transparent - Green Transparent - Blue Transparent - Glow in the Dark

Additional Info

Recommended temperature for heated bed is $\pm 90-100^{\circ}\text{C}$. M-ABS can be used on all common desktop FDM technology or FFF 3D printers. Storage: Cool and dry ($15-25^{\circ}\text{C}$) and away from UV light. This enhances the shelf life significantly.

Technical Data

Dimensions

Size	Tolerance	Roundness
$\varnothing 1,75\text{mm}$	$\pm 0,05\text{mm}$	>95%
$\varnothing 2,85\text{mm}$	$\pm 0,10\text{mm}$	>95%

Physical Properties

Description	Typical Value
Specific gravity	1,06 g/cc
MFR 200 $^{\circ}\text{C}/10\text{kg}$	12g/10min
Tensile stress	39,2 Mpa
Elong. at break (MD)	35%
Tensile modulus	1830 Mpa
Impact strength Izod method 23 $^{\circ}\text{C}$	17 KJ/m ²

Thermal Properties

Size	Roundness
Printing temp.	220-260 $^{\circ}\text{C}$
Melting temp.	210-240 $^{\circ}\text{C}$
Heat Deflection Temp.	$\pm 82^{\circ}\text{C}$