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.

Material features:

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

Colours:

M-ABS is available from stock in 12 colours. Other colours on request

cl1	bk1	wh1	bu1	rd1	gr1	yg1	rdt	ylt	grt	but	grg

Packaging:

M-ABS is available in nearly any type of packaging and labeling. Ask our team to help you customizing your product.

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

Material properties		
Description	**Testmethod**	**Typical value**
Specific gravity	ASTM D792	1,06 g/cc
MFI 220°C/10 kg	ISO 1133	11,0 g/10 min
Tensile strength at yield	ISO 527	38 MPa
Tensile strength at break	ISO 527	28 MPa
Elongation strain at break	ISO 527	45%
Elongation strain at yield	ISO 527	4,9%
Tensile (E) modulus	ISO 527	1780 MPa
Flexural modulus	ISO 178	1800 MPa
Flexural strength	ISO 178	59 MPa
Impact strength - Izod 23˚C	ISO 180/A	22 kJ/m2
Printing temp.	Internal method	250±10°C
Melting temp.	ISO 294	225±15°C
Transparency	ISO 13468	90%
Heat deflection temp.	ISO 75	69°C

Additional info:

Recommended temperature for heated bed is ≥90°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.