

MakerPoint M-ABS

MakerPoint M-ABS is a transparent ABS filament. It is strong, durable and impact resistant. Due to the low percentage of butadiene in M-ABS this filament smells a lot less than regular ABS, and also shows less warping. The M-ABS polymer is inherently less impact resistant than ABS, but MakerPoint M-ABS filament is still approximately 3 times more impact resistant than any regular PLA on the market. The transparency of the polymer makes it also possible to manufacture deep opaque colors, if desired.

Features:

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

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

| Colors |
|---|
| MakerPoint M-ABS is available from stock in the five translucent colors, transparent, red, yellow, green and blue, and in 5 opaque colors. Special colors are available upon request with a minimum order quantity of 20kg. |

| 3D-printing | |
|---------------------|---------------|
| Description | Typical value |
| Printing technology | FFF |
| Printing temp. | 220-260 °C |
| Heated bed temp. | ± 90-100 °C |
| Cooling fan | 100% |
| Flow Rate | 100% |

| Physical properties | | |
|---------------------|-------------|----------------------|
| Description | Test method | Typical value |
| Density | ASTM D792 | 1,06 g/cc |
| MFR | ASTD D1238 | 12,0 g/10 min |
| Tensile strength | ASTM D638 | 39,2 MPa |
| Stain at break | ASTM D638 | 35 % |
| Flexural modulus | ASTM D790 | 1830 Mpa |
| Impact Strength | ISO 180/A | 17 KJ/m ² |

| Thermal properties | | |
|--------------------|-------------|---------------|
| Description | Test method | Typical value |
| Melting temp. | ISO 294 | 210-240 °C |

Last change: 2014-03-31

The data correspond to our knowledge and experience at the time of publication. They do not on their own represent a sufficient basis for any part design, neither do they provide any agreement about or guarantee the specific properties of a product or part or the suitability of a product or part for a specific application. It is the responsibility of the producer or customer of a part to check its properties as well as its suitability for a particular purpose. This also applies regarding the consideration of possible intellectual property rights as well as laws and regulations. The data are subject to change without notice as part of MakerPoints continuous development and improvement processes.

| | | |
|----------------------|------------|--------|
| Heat Deflection Temp | ASTM 648 | ± 82°C |
| Transparency | ASTM D1003 | 90 % |

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