

ABS-X

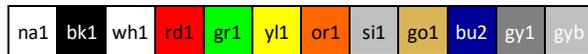
ABS-X is our take on a next-generation ABS filament. By applying our zero-warp technology to the filament we have created a filament with far less cracking, proven near perfect interlayers, reliable bed adhesion (glass, tape & other adhesives) while improving the mechanical properties making ABS-X extra strong. These properties make ABS-X the ultimate ABS replacement that prints strong and beautiful parts on any FDM 3D printer without the common headaches associated with regular ABS like warping & horrible bed adhesion. ABS-X is the perfect material for strong objects that require a high impact tolerance.

Material features:

- Zero warp technology
- Excellent interlayer adhesion
- Reliable bed adhesion (Glass, tape & other adhesives)
- Enhanced mechanical properties over regular ABS
- Great strength & aesthetics

Colours:

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



Packaging:

ABS-X is available in nearly any type of packaging and labelling. 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	ISO 1183	1,1 g/cc
MFI 260°C/5 kg	ISO 1133	41 g/10 min
Tensile strength at yield	ISO 527	40 MPa
Tensile strength at break	ISO 527	25,5 MPa
Elongation strain at break	ISO 527	10%
Elongation strain at yield	ISO 527	2,9%
Tensile (E) modulus	ISO 527	1980 MPa
Impact strength - Charpy method 23°C (notched)	ISO 179 1eA	58 kJ/m ²
Printing temp.	Internal method	245±10 °C
Melting temp.	ISO 294	235±10 °C
Vicat softening temp. B	ISO 306 B50	76°C
Vicat softening temp. A	ISO 306 A10	97°C

Additional info:

Recommended temperature for heated bed is ≥100°C. ABS-X is printed at high temperatures to make the final product extra strong. ABS-X can be used on all common desktop FDM or FFF technology 3D printers.

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

The values presented in this publication are based on MCPP's knowledge and experience and are intended for reference purposes only. While MCPP has made every reasonable effort to ensure the accuracy of the information in this publication, MCPP does not guarantee that it is error-free, nor does MCPP make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. MCPP reserves the right to make any adjustments to the information contained herein at any time without notice. MCPP expressly disclaims warranties of any kind regarding the information contained herein, including, but not limited to, any warranties of merchantability or fitness of a particular purpose, use or application. MCPP shall not be liable for any damage, injury or loss induced from the use of MCPP's products in any application. Each user should thoroughly review this publication before selecting a product and, in view of the many factors that may affect processing and application of the product, each user should carry out their own investigations and tests and determining the safety, lawfulness, technical suitability, proprietary rights, and disposal/ recycling practices of the materials for the intended application.