

# INTAMSYS® ABS+

## Product Description

**INTAMSYS® ABS+** is a Acrylonitrile-Butadiene-Styrene based filament designed specifically for FDM/FFF 3D printing. It offers superior printing quality, excellent mechanical strength and heat resistance, with moderate printing temperatures and great warping resistance.

PHYSICAL PROPERTIES	TEST METHOD	UNITS	TYPICAL VALUE
Density	ISO 1183	g/cm <sup>3</sup>	1.07
Glass transition temperature	DSC, 10°C/min	°C	114
Heat deflection temperature	ISO 75, 1.8MPa	°C	71
Heat deflection temperature	ISO 75, 0.45MPa	°C	91
Melt Volume Rate	ISO 1133, 250°C, 5kg	cm <sup>3</sup> /10min	10.0

MECHANICAL PROPERTIES <sup>1</sup>	TEST METHOD	UNITS	TYPICAL VALUE
Tensile strength	ISO 527	MPa	29.5
Young's modulus	ISO 527	MPa	1379
Elongation at break	ISO 527	%	10.9
Flexural strength	ISO 178	MPa	48.3
Flexural modulus	ISO 178	MPa	1406
Impact strength	ISO 179, Notched	kJ/m <sup>2</sup>	32.0

Note:  
All testing specimens were printed using a FUNMAT 3D PRINTER under laboratory conditions.

## Disclaimer

The typical values presented in this document are intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values may vary significantly with printing conditions. End-use performance of printed parts properties can be impacted by, but not limited to, part design, environmental conditions, printing conditions, etc. Product specifications are subject to change without notice.

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