

INTAMSYS® PC-ABS

Product Description

INTAMSYS® PC-ABS (polycarbonate/acrylonitrile-butadiene-styrene terpolymer blend) is a thermoplastic alloy, which is designed specifically for FDM/FFF 3D printing. It offers excellent toughness and heat resistance while displaying good surface finish and good compatibility with metal plating.

PHYSICAL PROPERTIES	TEST METHOD	UNITS	TYPICAL VALUE
Density	ISO 1183	g/cm ³	1.1
Glass transition temperature	DSC, 10°C /min	°C	109
Heat deflection temperature	ISO 75 1.8MPa	°C	106
Melt index	260°C, 5 kg	g/10min	11-17

MECHANICAL PROPERTIES ¹	TEST METHOD	UNITS	TYPICAL VALUE
Tensile strength	ISO 527	MPa	42.7
Young's modulus	ISO 527	MPa	2100
Elongation at break	ISO 527	%	4.7
Flexural strength	ISO 178	MPa	76.5
Flexural modulus	ISO 178	MPa	2055
Impact strength	ISO 179, Notched	kJ/m ²	16.2

Note:

- All testing specimens were printed using a FUNMAT HT 3D PRINTER under the following conditions:
Printing temperature = 260 °C, printing speed = 45 mm/s, number of shells = 2, and 100% infill.

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 impact by, but not limited to, part design, environmental conditions, printing conditions, etc. Product specifications are subject to change without notice.

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