INTAMSYS® HIPS

Product Description

INTAMSYS® HIPS is 3D printing material, **H**igh **I**mpact **P**oly**S**tyrene, with excellent printing quality. It possesses the properties of good impact resistance and low water absorption. It can also be used as the breakaway support material for ABS, ASA and PC.

PHYSICAL PROPERTIES	TEST METHOD	UNITS	TYPICAL VALUE
Density	ISO 1183	g/cm^3	1.05
Heat Deflection Temperature	ISO 75, 0.45MPa	°C	80
Melt index	200°C, 5kg	g/10min	3

MECHANICAL PROPERTIES[1]	TEST METHOD	UNITS	TYPICAL VALUE
Tensile strength	ISO 527	MPa	27
Elongation at break	ISO 527	％	55
Flexural strength	ISO 178	MPa	39
Flexural modulus	ISO 178	MPa	2280
Impact strength	ISO 179, Notched	kJ/m^2	12

Note:

1. All testing specimens were printed using a FUNMAT HT 3D PRINTER under the following conditions: Printing temperature = 250 °C, printing speed = 45 mm/s, number of shells = 2, and 100% infill.

RECOMMEND PROCESS CONDITIONS AS SUPPORT MATERIAL	
Nozzle temp.	220-250℃
Support for model material	ABS, ASA, PC
Support material removing method	Manually breakaway

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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