ABS

TDS - Technical Data Sheet

Material specification

Commercial name: 3ntr ABS

Raw material: ABS (acrylonitrile butadiene styrene)

Designation: 3d printing material

Supplier: Jdeal-Form srl

Mechanical properties*

Type	Test Method	Imperial	Metric
Tensile Modulus	ASTM D638	223213 psi	1539 Mpa
Yeld Point	ASTM D638	4235,1 psi	29,2 Mpa
Tensile Elongation at Yeld	ASTM D638	2.60%	2,60%
Tensile Strenght Ultimate	ASTM D638	3669,4 psi	25,3 MPa
Tensile Elongation at Break	ASTM D638	5,52%	5,52%

Thermal properties

Type	Test Method	Imperial	Metric
VICAT Softening	ISO 306B50	215,6°F	70°C
Glass Transition (TG)		226,4°F	75°C
Degradation Temperature		554°F	300°C

Physical characteristics

Type	Imperial	Metric
Density	0,037 lbs/in	1,05gr/cm3
Diameter	0,1122 in +/- 0,0019	2,85mm +/- 0,05
Roundness Deviation	Max 3%	Max 3%

Colors available

	Black	White	Red	Green	Blue	Yellow		
Shrink**		**0,43%**						

**test parts have been printed according to XZ orientation, using 100% infill, 0.2mm layer thickness, 0.4mm nozzle on a production A2v2 printer.*

***150x150x15 test part, 25% infill, 0.2mm layers*

The information supplied is supplied as informative: user should use it as material selection tool and/or comparison with available materials.

Printed part performance may differ from published value, depending on part orientation, printing parameters, environmental conditions.

User must validate suitability of the printed part and its lawful to be used as desired: no warranty can be made (express or implied) to any use of 3ntr materials.

We reserve the right to improve our polymer formulations and/or revise our technical data.