



# ASA

TDS - Technical Data Sheet

## Material specification

Commercial name: 3ntr ASA

Raw material: ABS (acrylonitrile styrene acryl )

Designation: 3d printing material

Supplier: Jdeal-Form srl

## Mechanical properties\*

Type	Test Method	Metric
Tensile Modulus	ASTM D638	2020 Mpa*
Yeld Point	ASTM D638	17,5 Mpa*
Tensile Elongation at Yeld	ASTM D638	15%*
Tensile Strenght Ultimate	ASTM D638	47,3 MPa*
Tensile Elongation at Break	ASTM D638	15%*

\*: values for injection moulded samples – 3D printed values available soon

## Thermal properties

Type	Test Method	Metric
VICAT Softening	ISO 306A50	98°C
Glass Transition (TG)		76°C

## Physical characteristics

Type	Metric
Density	1,11gr/cm3
Diameter	2,85mm +/- 0,05
Roundness Deviation	Max 3%

## Colors available

	<b>Black</b>	<b>White</b>	<b>Red</b>	<b>Green</b>	<b>Blue</b>	<b>Yellow</b>		
<b>Shrink**</b>		<b>0,43%</b>						

*\*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 3nr materials.*

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