



Readyprint™ Acrylonitrile Styrene Acrylate (ASA) is an amorphous thermoplastic polymer commonly used for rapid prototyping and weather-resistant parts due to its strength, low cost, and ease of printability. ASA offers properties close to ABS with improved resistance to UV, moisture and other climatic conditions providing higher durability over time. AON3D ASA has the following properties:

- High weather resistance
- High UV resistance
- Complies with the RoHS and REACH standards

2-year AON3D warranty.

Get Process Parameters at [DOCS.AON3D.COM](https://docs.aon3d.com)

## Filament Properties

Properties	Test Methods	Values
Diameter	INS-6712	1.75 ± 0.1 mm
Density	ISO 1183-1	1.056 g/cm <sup>3</sup>
Moisture Rate	INS-6711	< 0.5 %
Melt Flow Index (MFI)	ISO 1133-1 (@220°C – 10 kg)	4–10 g/10 min
Glass Transition Temperature (Tg)	ISO 11357-1 DSC (10°C/min – 20–300°C)	108 °C

## Printed Specimens Properties

Properties	Test Methods	Values
Tensile Modulus	ISO 527-2/5A/50	1.685 MPa
Tensile Strength	ISO 527-2/5A/50	38.8 MPa
Tensile Stress at Strength	ISO 527-2/5A/50	2.4%
Tensile Stress at Break	ISO 527-2/5A/50	34.6 MPa
Tensile Strain at Break (type A)	ISO 527-2/5A/50	4.3%
Flexural Modulus	ISO 178	1.662 MPa
Deformation at Flexural Strain	ISO 178	>5%
Flexural Stress at Conventional Deflection (3,5% strain)*	ISO 178	57.3 MPa
Charpy Impact Resistance	ISO 179-1/1eA	13 kJ/m <sup>2</sup>
Shore Hardness	ISO 868	74D

\*According to ISO 178, end of the test at 5% deformation even if there is no specimen break.

\*The data should be considered as indicative values – Properties can be influenced by production conditions.