

GLASS FIBRE REINFORCED ASA

ASA-GF Filament

1.75 mm · 1 kg spool · ± 0.05 mm tolerance

Glass fibre reinforced ASA combining outdoor UV and weather resistance with added rigidity and dimensional stability.

✓ UV and weather resistant

✓ Glass fibre reinforced

✓ Up to 250 mm/s

✓ Hardened steel nozzle required

Recommended Print Settings

Nozzle temperature 240–260 °C
250 °C recommended

Bed temperature 100–120 °C
110 °C recommended

Print speed 40–250 mm/s

Support material HIPS, ASA-GF (self supported)

 Use an enclosed printer and a hardened steel nozzle.

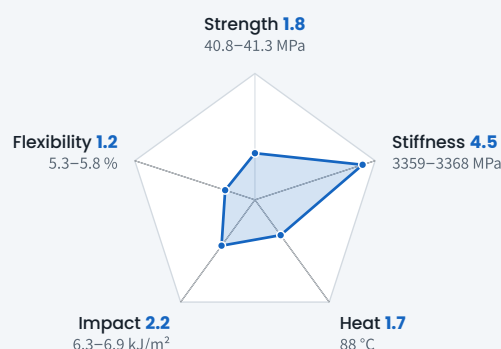
Filament Specifications

Material	Glass fibre reinforced ASA
Diameter	1.75 mm
Diameter tolerance	± 0.05 mm
Net filament weight	1 kg

Spool & Packaging

Empty spool weight	150 g
Spool with filament	1.15 kg
Spool outer diameter	200 mm
Hub diameter	52 mm
Spool width	65 mm
Shipping weight	1.3 kg
Box dimensions	210 × 220 × 75 mm

Property Profile



Scores from 1 to 5 relative to the OzFDM filament range, based on the typical values in this sheet (stiffness and impact on a log scale).

Stiffness uses flexural modulus, as no tensile modulus is listed.

Storage & Handling

Drying

80 °C for a minimum of 5 hours in a filament dryer or food dehydrator.

Storage

Airtight bag or container with desiccant in a cool, dark and dry area to prevent moisture absorption. For optimal long term storage we recommend drying the filament prior to sealing the filament spool in a vacuum bag with desiccant.

Mechanical Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Tensile strength (X-Y)	ISO 527	40.8–41.3 MPa
Elongation at break (X-Y)	ISO 527	5.3–5.8 %
Flexural strength (X-Y)	ISO 178	72.5–74.1 MPa
Flexural strength (X-Z)	ISO 178	27.2–31.7 MPa
Flexural modulus (X-Y)	ISO 178	3359–3368 MPa
Flexural modulus (X-Z)	ISO 178	1359–1590 MPa
Impact strength (X-Y)	ISO 180	6.3–6.9 kJ/m ²
Impact strength (X-Z)	ISO 180	2.5–3.2 kJ/m ²

Physical Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Density	ISO 1183	1.17–1.18 g/cm ³
Melt flow rate (220 °C, 5 kg)	ISO 1133	9–15 g/10min
Moisture absorption (23 °C, 24 h)	ISO 62	<0.5 %

Thermal Properties

PROPERTY	TEST METHOD	TYPICAL VALUE
Heat deflection temperature (0.455 MPa)	ISO 75	88 °C
Continuous use temperature	IEC 60216	85 °C

Available Colours 2



Natural



Black

Swatches are indicative only. Colours vary between screens and with print settings.

NOTES

Values shown are typical results measured on test specimens and are provided for guidance only. They are not guaranteed specifications and should not be used as design limits. Printed part properties vary with printer, settings, print orientation and part geometry. Test your parts for suitability before use in critical applications.