



Technical Data Sheet (TDS)

ASA CF – Carbon Fibre

DREMC ASA-CF is modified ASA blended with long carbon fibre (~12%). The filament blends provide better durability for a large range of applications. ASA is inherently UV resistance making it suitable for exterior applications.

Hardened Steel (Wear Resistance Nozzle) and larger than 0.5mm is required as standard and small nozzle will wear within first print or may clog nozzles over time with 0.4mm or smaller nozzle.

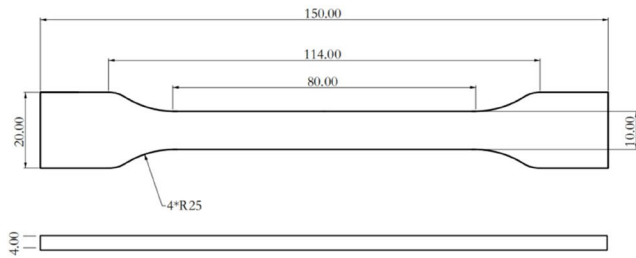
Physical Properties

	Testing Method	Typical value
Density	ISO 1183, GB/T1003	1.09 g/cm ³
Melt index	ISO 1183, 250°C/2.15Kg	5-7 g/10min
Moisture Absorption	ISO 62	<0.5%
HDT	ISO 75 / 0.455 MPa	88 °C

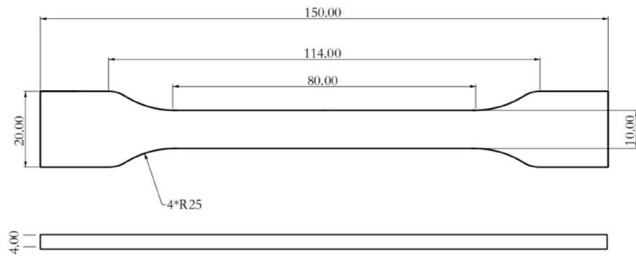
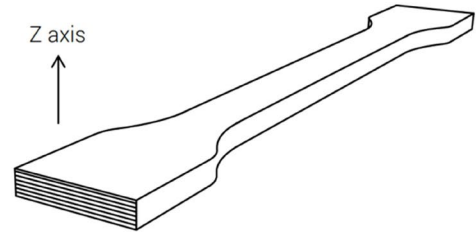
Mechanical Properties

	Testing Method	Typical value
Tensile strength	ISO 527	40 Mpa
Elongation at break	ISO 527	15.5%
Flexural Strength	ISO 178	80 Mpa
Impact Strength	ISO 180	11 Kj/m ²

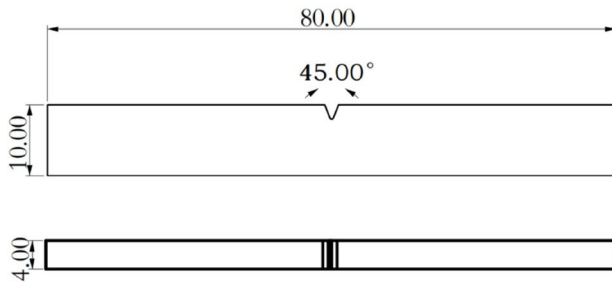
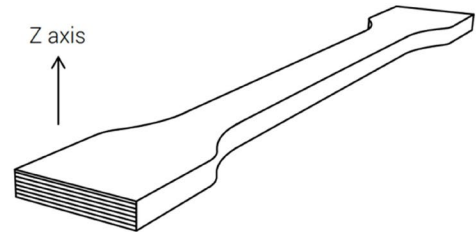
Note: ASA CF is a hygroscopic filament which tend to absorb moisture. We recommended to dry them before use at 65°C-70°C- for 8-12hr if filament have absorb moisture.



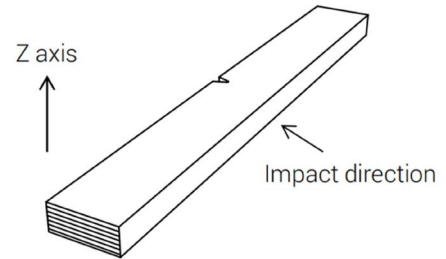
Tensile testing specimen; ASTM D638 (ISO 527, GB/T 1040)



Tensile testing specimen; ASTM D638 (ISO 527, GB/T 1040)



Impact testing specimen; ASTM D256 (ISO 179, GB/T 1043)



Testing Sample Conditions:

Nozzle Diameter 0.5mm

Nozzle Temperature: 270 °C

Printing Speed: 50mm/s

Layer: 0.12mm

Infill: 100%

DISCLAIMER:

The typical values presented in this data sheet are intended for reference and comparison purposes only among DREMC range. 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 depends not only on materials, but also on part design, environmental conditions, printing conditions. Product specifications may be subject to changes between manufacturing batch.

Each user is responsible for determining the safety, lawfulness, technical suitability, and disposal/ recycling practices of DREMC materials for the intended application. DREMC makes no warranty of any kind, unless announced separately, to the fitness for any use or application. DREMC shall not be made liable for any damage, injury or loss induced from the use of DREMC materials in any application.