



Technical Data Sheet (TDS)

DREMC PC-CF is modified PC blended with long carbon fibre (~12%), best suitable for higher heat application, matte like print surface quality and dimensional stability.

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.

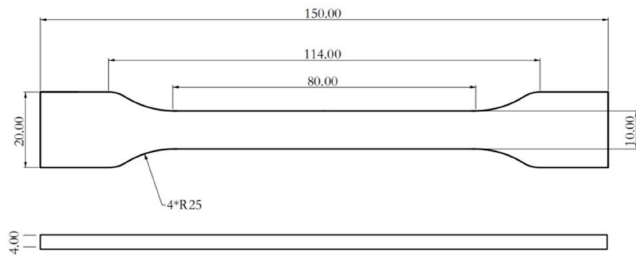
Physical Properties

	Testing Method	Typical value
Density	ISO 1183, GB/T1003	1.19-1.24 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	124 °C

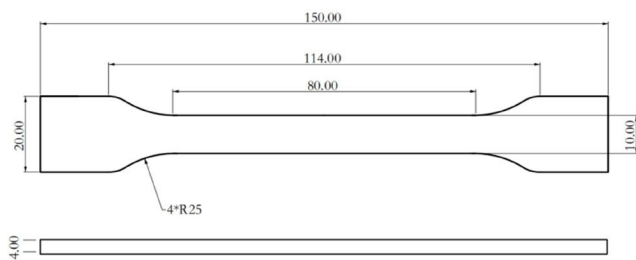
Mechanical Properties

	Testing Method	Typical value
Tensile strength	ISO 527	40 Mpa
Elongation at break	ISO 527	10%
Flexural Strength	ISO 178	85 Mpa
Impact Strength	ISO 180	7 KJ/m ²

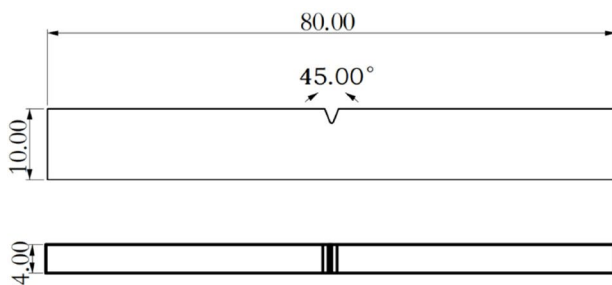
Note: PC CF is a hygroscopic filament which tend to absorb moisture. We recommended to dry them before use at 65°C-70°C- for 6-8hr if filament have absorbed moisture.



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 0.6mm

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.