



PLA CF

Technical Data Sheet (TDS)

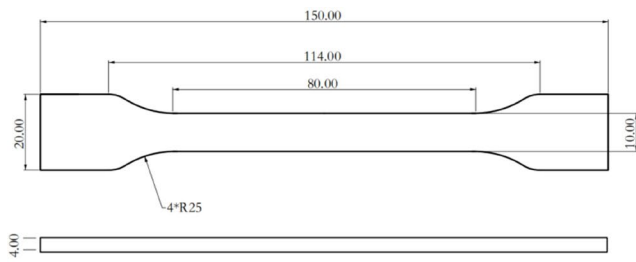
DREMC PLA is modified PLA with added Carbon Fibre to improve dimensional stability with added benefit of the matte finished with minimal layer lines, perfect for prototypes or display parts.

Physical Properties

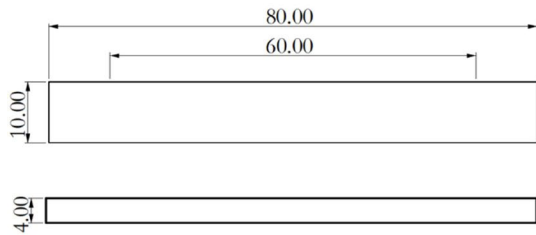
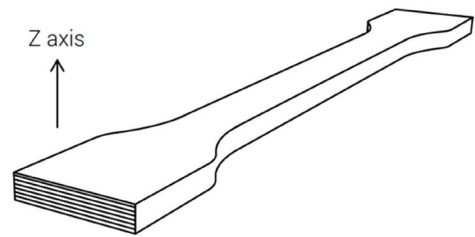
	Testing Method	Typical value
Density	ISO 1183, GB/T1003	1.24 g/cm ³
Melt index	250°C/2.15Kg	10 g/10min
Moisture Absorption	ISO 62	<0.5%
HDT	ISO 75 / 0.455 MPa	56°C
Continuous Use	IEC 60216	60°C

Mechanical Properties

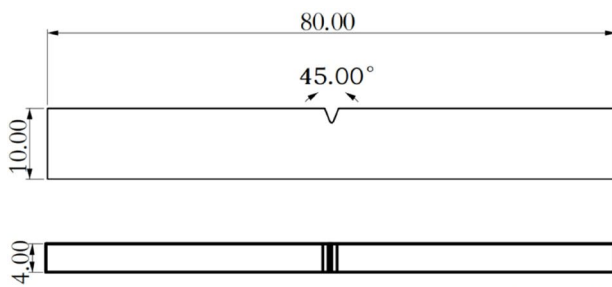
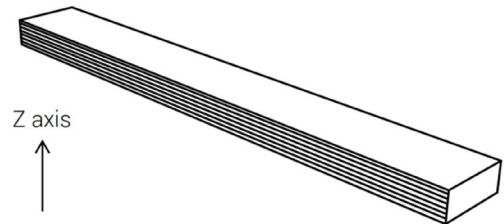
	Testing Method	Typical value
Tensile strength	ISO 527	45 Mpa
Elongation at break	ISO 527	11.5 %
Flexural Strength	ISO 178	90 Mpa
Flexural Modulus	ISO 527	1100 Mpa
Impact Strength	ISO180	9 Kj/m ²



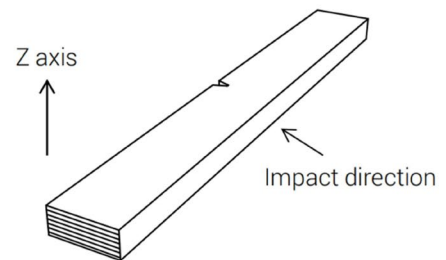
Tensile testing specimen; ASTM D638 (ISO 527, GB/T 1040)



Flexural testing specimen; ASTM D790 (ISO 178, GB/T 9341)



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



Testing Sample Conditions:

Nozzle Diameter 0.4mm

Nozzle Temperature: 210 °C

Printing Speed: 60mm/s

Layer: 0.12mm

Infill: 100%

DISCLAIMER:

The typical values presented in this data sheet are intended for reference and comparison purposes only. 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, etc. Product specifications are subject to change without notice.

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.