Technical Data Sheet (TDS)

PLA+ HS – High Speed

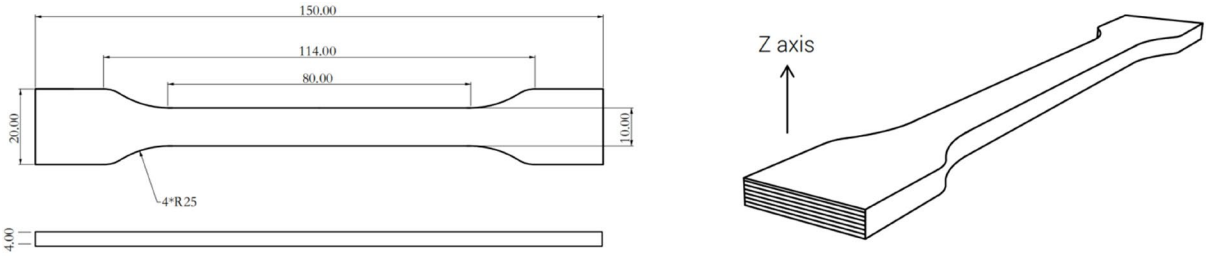
DREMC PLA HS is PLA to provide extra strength a dimensional stability with modified PLA formula to increase melt index to allow higher speed printing.

Physical Properties

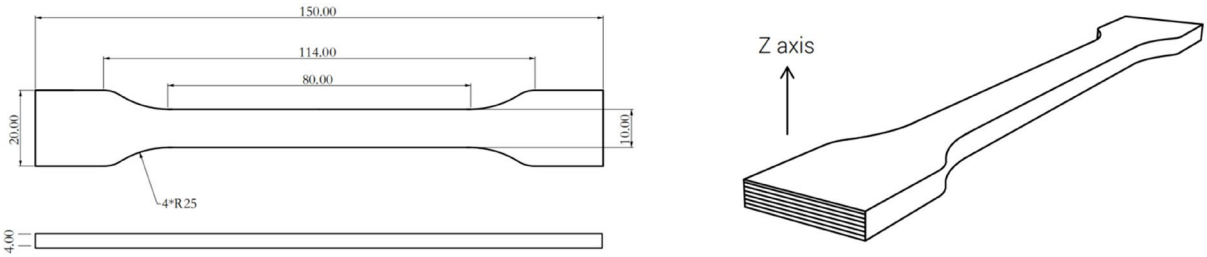
	Testing Method	Typical value
Density	ISO 1183, GB/T1003	1.25 g/cm3
Melt index	250°C/2.15Kg	20 g/10min
Moisture Absorption	ISO 62	<0.3%
HDT	ISO 75 / 0.455 MPa	53°C
Continuous Use Temperature	IEC 60216	50°C

Mechanical Properties

	Testing Method	Typical value
Tensile strength (X-Y)	ISO 527	48 Mpa
Tensile strength (X-Z)	ISO 527	40 Mpa
Elongation at break (X-Y)	ISO 527	14 %
Elongation at break (X-Z)	ISO 527	7%
Flexural Modulus (X-Y)	ISO 527	2100 Mpa
Flexural Modulus (X-Z)	ISO 527	1900 Mpa
Flexural Strength (X-Y)	ISO 178	80 Mpa
Impact Strength	ISO180	5 Kj/m^2



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



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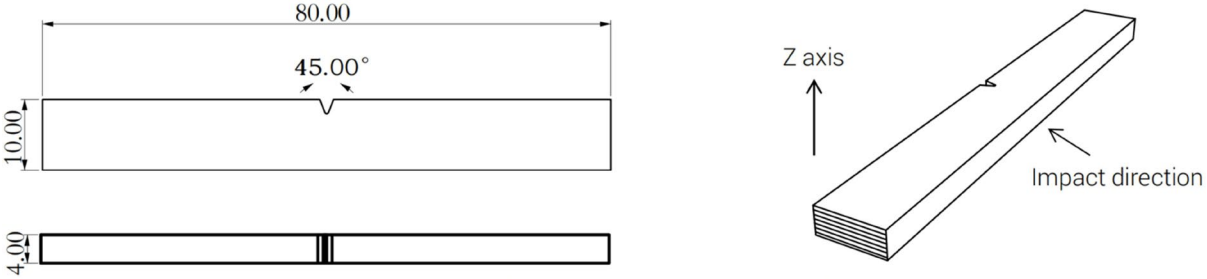

Impact testing specimen; ASTM D256 (ISO 179, GB/T 1043)

Testing Sample Conditions:

Nozzle Diameter 0.4mm

Nozzle Temperature: 280 °C

Printing Speed: 100-350mm/s

Layer: 0.2mm

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.