



Technical Data Sheet (TDS)

TPU

DREMC TPU is filament that offer excellent durability using polyurethan elastomer polymers offering 95A hardness.

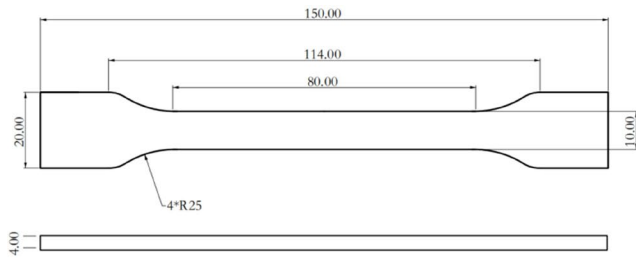
Physical Properties

	Testing Method	Typical value
Density	ISO 1183, GB/T1003	1.25 g/cm ³
Melt index	250°C/2.15Kg	8 g/10min
Moisture Absorption	ISO 62	<0.5%
HDT	ISO75 / 0.445 mpa	95°C
Continuous Use Temperature	IEC 60216	90°C

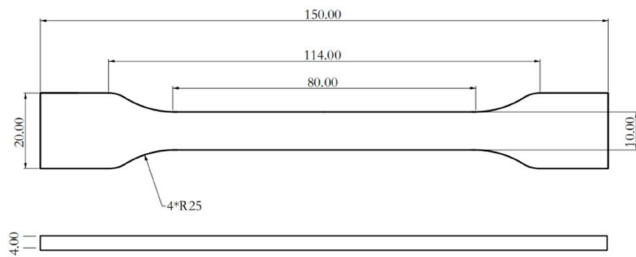
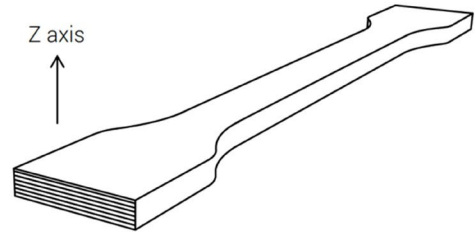
Mechanical Properties

	Testing Method	Typical value
Tensile strength	ISO 527	27 Mpa
Elongation at break	ISO 527	800 %
Flexural Strength	ISO 178	6 Mpa
Impact Strength	ISO180	N/A

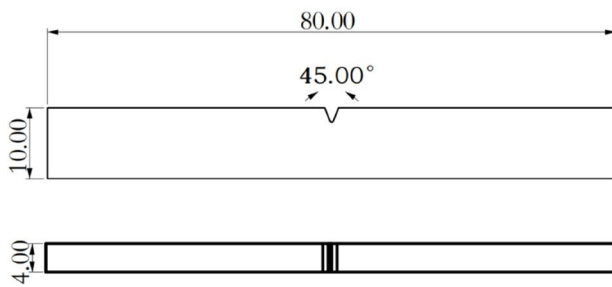
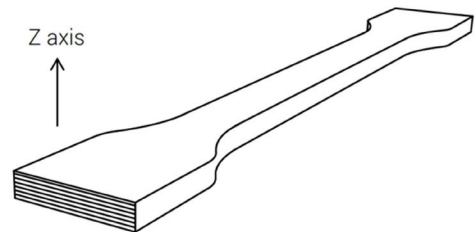
Note: TPU is a hygroscopic filament which tend to absorb moisture. We recommended to dry them before use at 50-60°C for 5-10hr.



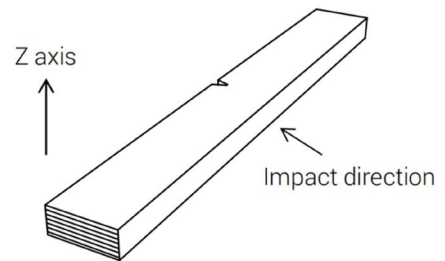
Tensile testing specimen; ASTM D638 (ISO 527, GB/T 1040)



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: 280 °C

Printing Speed: 30-50mm/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.