

Product Description

SMaRT ABS is manufactured by the SMaRT Centre from 100% recycled ABS waste. The material consists of three different main monomers Acrylonitrile, 1,3-Butadiene and Styrene. Compared to PLA, SMaRT ABS can maintain its mechanical durability when operating at relatively high pressure and temperatures.

Mechanical and Thermal Properties

	Standard	Flat XY	Upright ZX
Tensile Strength	ISO 527	28.9 MPa	18.2 MPa
Elongation at Break	ISO 527	4.92%	1.33%
Young's Modulus	ISO 527	1763 MPa	1664 MPa
Glass Transition Temperature	-	105.2°C	

Recommended 3D-Print processing

Nozzle Temperature	220-250°C
Bed Material	Glass, BuildTak or PEI sheets
Bed Temperature	95-105°C
Nozzle Diameter	≥ 0.4mm
Print Speed	30 – 100 mm/s

General Properties

Filament diameter	1.70 ± 0.05 mm
Filament colour	Black
Filament weight	1 ± 0.05 kg
Filament length	320 ± 5 m