

## 3D Printing Filament, EcoFilament

### rABS:

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

### ABS Mechanical & Thermal Properties

	Standard	Flat XY	Upright ZX
Tensile Strength	ISO 527	28.9 MPa	18.2 MPa
Elongtion 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 kg, 3kg ± 0.05
Filament Length:	kg 320 ± 5 m