

## Technical Datasheet Ultimate ABS

### General information

Trade name	ABS Ultimate Filament
Polymer name	Acrylonitrile Butadiene Styrene

### Filament specifications

Trade diameter	1.75mm		3mm	
Physical diameter	1.75	mm	2.85	mm
Tolerance	0.05	mm	0.10	mm

### Material specifications

Property	Value	Unit	Test Method
<i>Physical</i>			
density	1,05	g/cm <sup>3</sup>	ISO 1183/B
melt mass flow rate (MFR)	8.5	g/10min	ISO 1133
<i>Mechanical</i>			
Strength, flexural	69.0	MPa	ISO 178
tensile modulus	2360	MPa	ISO 527-2
tensile stress @ yield	46	MPa	ISO 527-2
strain @ break	40	%	ISO 527-2
tensile izod impact strength			
-30 °C	11	kJ/m <sup>2</sup>	ISO 180-A
23 °C	23	kJ/m <sup>2</sup>	ISO 180-A
<i>Thermal</i>			
heat deflection temperature under load			
0.45 MPa	103	°C	ISO 75-2
1.8 MPa	100	°C	ISO 75-2
linear thermal expansion	0.000080	cm/cm/°C	ISO 11359-2

### Notes

- the above values are measured on uncolored raw material. Actual material properties may differ depending on color additives.
- properties may change depending on actual printer settings

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