

## Technical Datasheet PLA Cellulose

### General information

trade name	Octofiber PLA Cellulose		
polymer name	Cellulose Filled Poly Lactic Acid		

### 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	1.21	g/cm <sup>3</sup>	EN ISO 1183
melt flow index	21	190 °C/10kg	ISO 1133
<i>Mechanical</i>			
tensile strength	28	N/mm <sup>2</sup>	ISO 527
tensile modulus	2600	N/mm <sup>2</sup>	ISO 527
strain	5	%	ISO 527
Charpy impact strength	24	kJ/m <sup>2</sup>	ISO 179/1eU
<i>Thermal</i>			
peak melt temperature	140- 180	°C	ISO 11357
glass transition temperature	64	°C	ISO 11357

### Printing recommendations

nozzle temperature	210- 225	°C
print speed	10- 30	mm/s
bed temperature	0- 60	°C
bed material	glass/kapton	

### 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

