

Technical Datasheet Carbon Reinforced Polyester Filament

General information

Trade name	Octofiber Carbon Reinforced Polyester
Polymer name	Polyester

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	1.18	g/cm ³	ISO 1183
<i>Mechanical</i>			
tensile strength	78	MPa	ISO 527
tensile modulus	3800	Mpa	ISO 527
yield stress	50	MPa	ISO 527
yield strain	4	%	ISO 527
elongation @ break	9	%	ISO 517
<i>Thermal</i>			
glass transition temperature	80	°C	ISO 306
printing temperature	220-255	°C	

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

