Technical Data Sheet

GRANULE-Eco Carbon Fiber

GRANULE-Eco Carbon Fiber is an easily printable material with a high content of recycled carbon fibers. The carbon fibers provide superior mechanical properties to the printed samples.

Granule features

Particle	Carbon Fibers
Polymeric matrix	PLA-PCL
Particle loading (vol.%/wt.%)	5 - 15 vol.% / 8 - 21 wt.%
Density	1.2 - 1.3 g/cm^3
Linear Density	3.0 - 3.2 g/m
Format	Vacuum-packed spool

Thermal Properties

Glass Transition Temp.	62 °C
Melting Temp.	154 °C
Degradation Temp.	350 °C

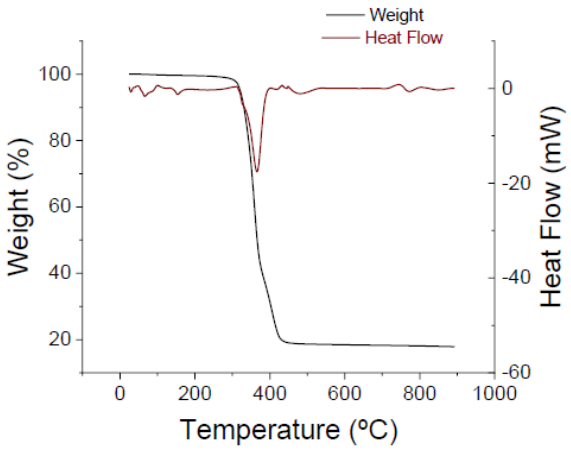
Printing Recommendations

Printing Temp.	155 - 165 °C
Hot Pad	30 - 60 °C
Printing Speed	20 - 40 mm/s
Layer Height	≥ 0.15 mm
Nozzle Diameter	≥ 0.4 mm
Head travel speed	< 200 mm/s
Stand-by Temp.	30 °C

Storage Conditions

Keep in a dry place
Protect from direct sunlight
Storage between 5°C - 30°C

Thermal behavior



Granule sample

Printing Examples

Powder Specifications

Carbon Fibers Powder

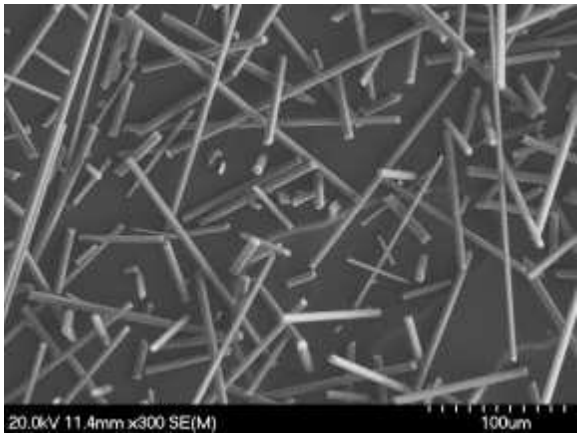
Product identification

CAS Number	7440-44-0
Chemical formula	C

Chemical composition

Purity	> 99.8 %	
Density	1.86 g/cm^3	Helium picnometry
Spec. Surf. area	17.08 m^2/g	N_2 adsorption-desorption

Particle morphology



Scanning electron microscope image

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