

CPE CF112 Carbon Pellets

Mechanical properties	Typical Value	Test Method	Test Condition
Tensile strength at yield	52 MPa	ISO 527	50 mm/min
Tensile strength at break	38 MPa	ISO 527	50 mm/min
Elongation at break	8 %	ISO 527	50 mm/min
Tensile modulus	2200 MPa	ISO 527	50 mm/min
Flexural strength	-	ISO 178	
Flexural modulus	-	ISO 178	
Hardness	77 Shore D	ISO 7619	
Charpy impact strength	105 kJ/m ²	ISO 179	unnotched
Abrasion resistance	-		

Thermal properties	Typical Value	Test Method	Test Condition
Melting temperature	-	ISO 11357	
Glass transition temperature	102 °C	ISO 11357	
Melt flow index	-	ISO 1133	220 °C, 10 kg
Vicat softening temperature	-	ISO 306	
Flame classification	-	UL 94	
Temperature resistance	100 °C		

Chemical properties	Typical Value
Polymer base	Copolyester + carbon fibers
Good chemical resistance	Acids, alkalis, alcohols
Medium to low chemical resistance	Water, acetone, oils, greases, car fluids, ozone

Other properties	Typical Value	Test Method	Test Condition
Material density	1.16 g/cm ³	ISO 1183	
UV stability	No		
Electrical volume resistivity	10 ¹² Ω·cm		
Food contact	No		
Biodegradability	No		
Transmittance	No		



Package size:

- 1 kg
- 5 kg
- 15 kg

Features:

- Creep resistance
- Matte finish
- Wear resistance
- Temperature resistance up to 100 °C

Workability of 3D printing filament is at least 12 months from delivery.

This material can be used to produce electrical and electronic equipment. It doesn't contain restricted substances.

The information was processed with the best knowledge of the manufacturer, and it is for information only.