

OBC 905

Mechanical properties on 3D printed samples	XY-axis	Z-axis	Test Method	Test Condition
Tensile strength at yield	14 MPa	11 MPa	ASTM D1708	
Tensile strength at break	14 MPa	12 MPa	ASTM D1708	
Elongation at yield	10 %	24 %	ASTM D1708	
Elongation at break	700 %	480 %	ASTM D1708	
Flexural strength	7.8 MPa	6.8 MPa	ASTM D790	5% strain
Flexural modulus	244 MPa	217 MPa	ASTM D790	1% strain
Izod impact strength	347 J/m	352 J/m	ASTM D256	notched
Izod impact energy	34.3 kJ/m ²	43.1 kJ/m ²	ASTM D256	

Printed conditions:

- printing temperature: 200 °C
- bed temperature: 65 °C
- print speed: 20 mm/s
- 2 perimeters
- 100% infill

Mechanical properties	Typical Value	Test Method	Test Condition
Hardness	53 Shore D	ISO 7619	
Charpy impact strength	-	ISO 179	unnotched

Thermal properties	Typical Value	Test Method	Test Condition
Melting temperature	130 °C	ISO 11357	
Glass transition temperature	-13 °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	Olefinic block copolymer
Good chemical resistance	Water, acids, alcohol, acetone.
Low chemical resistance	Car fluids, oils, grasses.

Other properties	Typical Value	Test Method	Test Condition
Material density	0.905 g/cm ³	ISO 1183	
UV stability	No		
Electrical volume resistivity	10 ¹⁶ Ω·cm		
Food contact	No		
Biodegradability	No		
Transmittance	No		



Diameter tolerance: ± 0.05 mm
Weight: 600 g of filament + 230 g spool

- Low density
- Impact and wear resistance
- Waterproof surface
- Temperature resistance 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.