Technical datasheet

Timberfill® Pellets

Mechanical properties	Typical Value	Test Method	Test Condition
Tensile strength at yield	-	ISO 527	50 mm/min
Tensile strength at break	39 MPa	ISO 527	50 mm/min
Elongation at break	2 %	ISO 527	50 mm/min
Tensile modulus	3200 MPa	ISO 527	50 mm/min
Flexural strength	-	ISO 178	
Flexural modulus	-	ISO 178	
Hardness	77 Shore D	ISO 7619	
Charpy impact strength	22 kJ/m^2	ISO 179	unnotched
Abrasion resistance	-		

Thermal properties	Typical Value	Test Method	Test Condition
Melting temperature	175 °C	ISO 11357	
Glass transition temperature	-	ISO 11357	
Melt flow index	31 g/10 min	ISO 1133	190 °C, 2.16 kg
Vicat softening temperature	-	ISO 306	
Flame classification	-	UL 94	
Temperature resistance	50 °C		

Chemical properties	Typical Value
Polymer base	Biopolymers + natural fibres
Good chemical resistance	
Low chemical resistance	Water, acids, bases, alcohols

Other properties	Typical Value	Test Method	Test Condition
Material density	1.25 g/cm^3	ISO 1183	
UV stability	No		
Electrical volume resistivity	10^{16} Ω·cm		
Food contact	No		
Biodegradability	No		
Transmittance	No		

Package size:

- 1 kg
- 5 kg
- 15 kg

Features:

- Appealing wood finish
- 100% natural origin
- Biodegradable in industrial composter
- High mechanical resistance and hardness
- Temperature resistance up to 50 °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.

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