

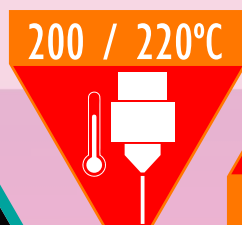


smart materials **3D**

SMARTFIL[®] E.P.: THE SMART 3D FILAMENT **BY SMART MATERIALS 3D**

You will like this material as it is really easy to use. Low printing temperatures, no warping and it can be sanded easily in order to improve the surface finish. Besides, it is harder than PLA.

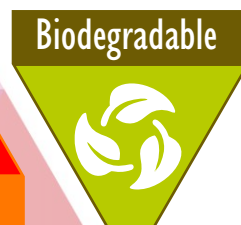
¿Which are its main properties?



200 / 220°C



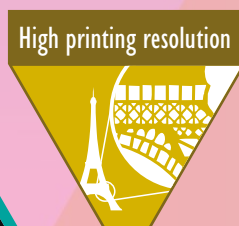
No Heated Bed



Biodegradable



No Warping



High printing resolution



Easy to sand/file

We do not recommend to print this filament under 0,1mm as it can cause obstruction of the extruder.

¿What can you achieve with this material?

- ▼ **Print great pieces easily, harder than PLA ones.**
- ▼ **Good printing resolution** as this material has no warping and doesn't require high printing temperatures. As well, **it can be sanded and filed easily** getting incredible surface finishes.
- ▼ **You can colour your pieces with any painting material you like.**



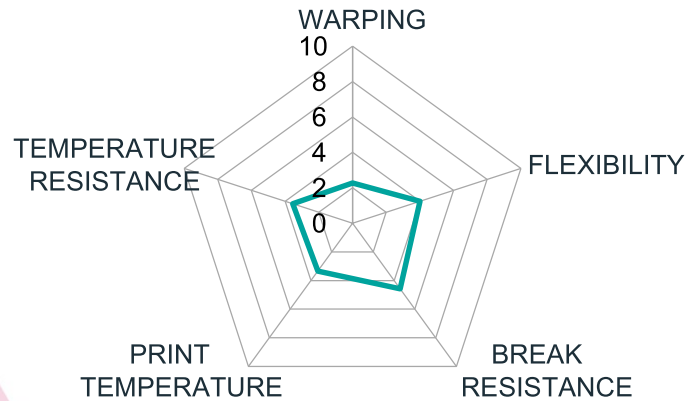


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SMARTFIL® E.P.

This material is really easy to print as it doesn't need heated bed and has no warping, which let you get pieces with good resolution. As well, it can be sanded, or filed, easily and it is compatible with many painting materials. Other aspect you may like is that our SMARTFIL® E.P. is harder than PLA.

WARPING	VERY LOW
FLEXIBILITY	LOW
BREAK RESISTANCE (IZOD)	LOW
PRINT TEMPERATURE	± 200°C
TEMPERATURE RESISTANCE	75°C
HEATED BED	0 - 60°C
DENSITY	1,10 g/cm ³



CHARACTERISTIC	SMARTFIL E.P.	UNIT	TEST METHOD
BREAKING RESISTANCE (IZOD)	18	KJ/m ²	ASTM (D256)
TENSILE STRENGTH	405	Kg/cm ²	ASTM (D638)
SURFACE HARDNESS (ROCKWELL)	90	Mpa	ISO 2039
THERMAL RESISTANCE	75	°C	ISO 306
DENSITY	1,10	g/cm ³	ISO 1183
BENDING STENGTH	520	Kg/cm ²	ISO 178

DIAMETERS

- ✓ 1.75mm (± 0.03)
- ✓ 2.85mm (± 0.05)

***Note:** None of our products is produced with recycled material in order to get the highest quality filaments.

COLOURS

COLOUR	NAME
WHITE	IVORY WHITE
BLACK	TRUE BLACK

PACKAGING

SIZE	NET WEIGHT	GROSS WEIGHT	PACKAGING'S CHARACTERISTICS
M	750g	975g	Bolsa SMART, bolsa desecante, precinto de garantía