SMARTFIL® by smart materials 3D

smart materials 3D

SMARTFIL® PETG

PETG

Copolyester con un 91% de transparencia en su estado natural, de gran parecido al vidrio y con una gran resistencia química también. Es muy fácil de imprimir, ya que tiene muy baja contracción y puede imprimirse sin cama caliente.

Copolyester with 91% transparency in its natural state, it is very glass like, with high chemical resistance. Accepted for use with food products (FDA). It is very easy to print, as it has very low shrinkage and requires no warm bed.

Physical Properties	Typical Value	Test Method
Material Density	1,27 g/cm^3	ASTM D792
Chemical Name	Polyethylene Terephthalate Glycol	

Mechanical Properties	Typical Value	Test Method
Flexural Modulus	2100 MPa	ASTM D790
Flexural Strenght	69 MPa	ASTM D790
Notched Izod Impact	105 J/m	ASTM D256
Rockwell Hardness (R Scale)	108 R	ASTM D785
Specific Gravity	1.27	ASTM D1505
Tensile Yield Strenght	50 MPa	ASTM D638

Thermal Properties	Typical Value	Test Method
Heat Distorsion Temperature	70 ºC	ASTM D648
Vicat Softering Temperature	85 ºC	ASTM D1525

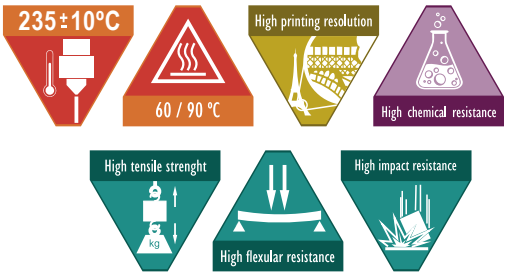
Printing Properties	Typical Value
Print Temperature	235±10 ºC
Hot Pad	60-90 ºC
Fan Layer	On (100%)

Size	Net W.	Gross W.	Diameters	Packaging Characteristics
M	750 g	975 g	1´75 / 2´85 mm	SmartBag, security seal
XL[1]	3300 g	3864 g	1´75 / 2´85 mm	SmartBag, security seal
XXL[1]	5600 g	6346g	1´75 / 2´85 mm	SmartBag, security seal
XXXL[1]	7000 g	7746 g	1´75 / 2´85 mm	SmartBag, security seal

(1)XL, XX and XXL son fabricados bajo demanda. Plazo de entrega entre 1 y 5 semanas.
XL, XX and XXL spools are made under order. Delivered term between 1 and 5 weeks.

Colores Disponibles / Available Colours

Color	Name	Colour
Natural	Natural	Nature
Negro	True Black	Black



Reciclable
Recyclable
Recyclable

Apto para contacto con alimentos
Food Approved
Aliments approuvés

Nota: *Ninguno de nuestro filamentos contiene material reciclado con el fin de ofrecer filamentos de la mejor calidad.*

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