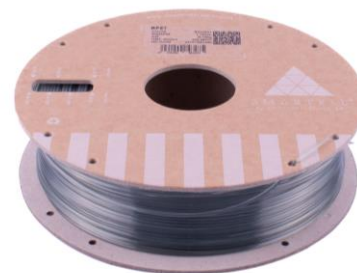


RPET

Our SMARTFIL® R-PET is a sustainable filament, it comes directly from the recycling of drink bottles.

This material keeps all the PETG properties and in addition has greater rigidity, and less translucency.

It has a contact with food certificate, is a material suitable for medical use, also it can be sterilized with gamma rays, ethylene oxide and autoclave.



Resistencia a químicos
Chemical resistance



Resistencia térmica
Thermal resistance



Resistencia al impacto
Impact resistance

	VALUES	UNIT OF MEASUREMENT	STANDARD
PHYSICAL PROPERTIES			
Chemical composition	Recycled PET		
Density	1.37	g/cm ³	ISO 1183
MECHANICAL PROPERTIES ⁽¹⁾			
	XY PLANE	XZ PLANE	
Tensile strength	51.3	27.2	MPa
Traction module	2333.1	2358.3	MPa
Flexible force	108.7	54.9	MPa
Bending modulus	382.6	312.2	MPa
Traction elongation (until breakage)	5.4	1.7	%
Charpy Impact Force (without notch)	-	-	kJ/m ²
Hardness	84.5		Shore D

⁽¹⁾ Values obtained on printed specimens, nozzle 0.6 mm, 100% rectilinear infill, layer height 0.2 mm for more information please contact us by email at info@smartmaterials.com or visit our website www.smartmaterials3d.com

PRINT PROPERTIES			
Printing temperature	260 – 280		°C
Bed temperature	70 – 90		°C
Cover fan	40-60		%
Print Speed	30 – 40		mm/s
Flow	100		%
Cover height	≥ 0.2		mm
Nozzle recommendations (Brass)	≥ 0.6		mm

SIZE	NET WEIGHT	GROSS WEIGHT	DIAMETROS	COLOR	PACKING
M	750 g	1065 g	1.75 mm/2.85 mm	Natural	Cardboard box, cardboard coil, vacuum bag, desiccant.

NOTICE: The information provided in the data sheets is intended to be for reference only. It should not be used as design values or quality control. Actual values can differ significantly depending on printing conditions. The final performance of printed components not only depends on the materials, designing and printing conditions are also important.