

PETG MDT

It is a 3D printing filament designed to be detected by any type of magnetic detector, even when the material is present in very small particles.

This property makes it especially suitable for the food industry, where the absence of contaminants of any origin is essential. It is also indicated for the manufacture of sensors, intelligent packaging, etc. In addition, this filament has high dimensional stability. Resistant to moisture, fungus and mold.



Allow for all printers Magnet detectable Food Approved

	VALUES	UNIT OF MEASURE	STANDARD
PHYSICAL PROPERTIES			
Chemical composition	Polyethylene Glycol Terephthalate Compound		
Density	1,29	g/cm ³	ISO 1183
MECHANICAL PROPERTIES ¹			
	XY PLANE	XZ PLANE	
Tensile resistance	35,9	MPa	ISO 527
Tensile module	1818,6	MPa	ISO 527
Flexible stress	59,9	MPa	ISO 178
Flexible module	2326,4	MPa	ISO 178
Tensile elongation at break	3,1	%	ISO 527
Elongation at maximum effort	2,3	%	ISO 527
Flexural elongation at break	15,1	%	ISO 178
Notched Charpy Impact Strength	21,8	kJ/m ²	ISO 179
Hardness	80,1	Shore D	ISO 7619 - 1
THERMAL PROPERTIES			
Glass transition temperature (T _g)	104,5	°C	ISO 11357
VICAT B (50 N 50°C/h)	72	°C	ISO 306
HDT B (0,45 MPa)	70	°C	ISO 75
PRINTING PROPERTIES			
Printing temperature	220 - 240	°C	
Bed temperature	65 - 85	°C	
Print speed	30 - 50	mm/s	
Layer fan	60 - 80	%	
Material flow	90 - 95	%	

SIZE	NET WEIGHT	GROSS WEIGHT	DIAMETER	COLOUR	PACKAGING
M	750 g	975 g	1,75 mm/2,85 mm	Natural, Grey	Innovatefil box

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