PETG

TECHNICAL DATA SHEET VERSION 1.1

SMARTFIL by smart materials 3D

PETG

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.

Reciclable
Recyclable
Recyclable

Apto para contacto con alimentos
Food Approved
Aliments approuvés

	TIPICAL VALUE	UNITS	TEST METHOD
PHYSICAL PROPERTIES			
Chemical Name	Polyethylene Terephthalate		
Material Density	1.27	g/cm^3	ASTM D792
MECHANICAL PROPERTIES			
Tensile Yield Strength	50	MPa	ASTM D638
Specific Gravity	1.27	g/cm^3	ASTM D1505
Rockwell Hardness (R Scale)	108	R	ASTM D785
Notched Izod Impact	105	J/m	ASTM D256
Flexural Strength	69	MPa	ASTM D790
Flexural Modulus	2100	MPa	ASTM D790
THERMAL PROPERTIES			
Heat Distorsion Temperature (0.45 MPa)	70	°C	ASTM D648
Vicat Softening Temperature	85	°C	ASTM D1525
PRINTING PROPERTIES			
Print Temperature	225-245	°C	
Hot Pad	60-90	°C	
Fan Layer	ON (100)	%	

SIZE	NET W.	GROSS W.	DIAMETERS	COLOR	PACKAGING
M	750 g	975 g	1.75 mm/2.85 mm	Various colors	SmartBag, security seal, desiccant bag