

## TECHNICAL DATA SHEET PA12+CF15

## **3D Filaments – PRINT WITH SMILE**



Data were obtained by a few lots of material and are subjected to variations. Specimens are printed under the following conditions: angle 45°, infill 100%.

PHYSICAL PROPERTIES - Typical values	STANDARDS	SI UNITS	
Density			
sample	ISO 1183	1.05	g/cm³
MECHANICAL PROPERTIES - Typical values			
CHARPY impact strength (sample 80x10x4 mm)			
Unnotched, as printed	ISO 179-1eU	55	kJ/m²
Notched, as printed	ISO 179-1eA	14	kJ/m²
Tensile elongation (speed 5 mm/min)			
At break, as printed	ISO 527 (1)	7	%
Tensile strength (speed 5 mm/min)			
At break, as printed	ISO 527 (1)	50	MPa
Elastic modulus			
Tensile (speed 1 mm/min), as printed	ISO 527 (1)	3650	MPa
THERMAL PROPERTIES - Typical values			
VICAT - Softening point			
50 N (heating rate 50°C/h), as printed	ISO 306	168	°C
0.45 MN/m², as printed	ISO 75	92	°C
1.81 MN/m², as printed	ISO 75	85	°C
PROCESSING PARAMETERS			
Nozzle temperature		250	°C
Plate temperature		90	°C
Object resolution		0.15	mm
Shell thickness		0.6	mm
Print speed		40	mm/s

The material has not to be considered suitable for specific applications in medical sector. The material has not to be considered suitable for potable water and/or food contact.

FUEL INVEST SE,

CZ – Vrážská 1562, Praha 5 - 15300

IČ/VAT: CZ242 32 084

Vedená u Krajského soudu v Praze, H 800



