



Kimya PEI-1010 3D Filament

The Kimya **PEI-1010** 3D filament belongs to the family of thermoplastic polyimides. Polyetherimide (**PEI**) is an amorphous thermoplastic. It benefits from good resistance to temperature and solvents, as well as high dimensional stability. It is used in the electronics, transport and medical sectors. The Kimya PEI-1010 3D filament has the following properties:

- High rigidity
- UV resistance
- Flame retardant – **UL94 V0** eligible
- Food contact certification **EU 10/2011, FDA 21 CFR**
- Complies with the **RoHS** and **REACH standards**

2-year ARMOR warranty.

FILAMENT PROPERTIES

PROPERTIES	TEST METHODS	VALUES
Diameter	INS-6712	1,75 ± 0,1 mm 2,85 ± 0,1 mm
Moisture rate	INS-6711	< 1 %
Glass transition temperature (Tg)	ISO 11357-1 DSC (10°C/min - 0-420°C)	216 °C

PRINT PARAMETERS AND SPECIMENS DIMENSIONS

PRINTING DIRECTION	XY
Printing Speed	10-40 mm/s
Nozzle Temperature	360-400°C
Bed T°	140-170°C

PRINTED SPECIMENS PROPERTIES

	PROPERTIES	TEST METHODS	VALUES
MECHANICAL PROPERTIES	Tensile modulus	ISO 527	3 200 MPa
	Flexural modulus	ISO 178	3 300 MPa
	Charpy impact resistance	ISO 180	10 kJ/m ²
Note 1	Les données doivent être considérées comme des valeurs indicatives - Les propriétés peuvent être influencées par les conditions de production.		

Created on 01/07/2019 - Revised on 01/07/2019.