

Kimya PC-S 3D Filament

PC-S 3D filament resists shock and heat. It is ideal for printing sturdy parts.

- FDA CERTIFICATION
- STERILIZABLE
- HEAT RESISTANCE (UP TO 140°C)

ARMOR 2 years warranty.

FILAMENT PROPERTIES

PROPERTIES	TEST METHODS	VALUES
Diameter	INS-6712	1,75 ± 0,1 mm
Moisture rate	INS-6711	< 4 %

PRINT PARAMETERS AND SPECIMENS DIMENSIONS

PRINTING DIRECTION	XY
PRINTING SPEED	45 mm/s
INFILL	100% - rectilinear
INFILL ANGLE	45°/-45°
Nozzle Temperature	295°C
BED T°	105°C

PRINTED SPECIMENS PROPERTIES

	PROPERTIES	TEST METHODS	VALUES
THERMAL PROPERTIES	Maximum use T°	-	140 °C
MECHANICAL PROPERTIES	Tensile modulus	ISO 527	2 172 MPa
	Tensile Strength	ISO 527	53,8 MPa
	Elongation at Tensile Strength	ISO 527	3,7 %
	Tensile Stress at Break	ISO 527	44,6 MPa
	Tensile Elongation at Break	ISO 527	4,8 %
	Flexural modulus	ISO 178	1 640 MPa
	Flexural stress at conventional deflection (3,5% strain)	ISO 178	67,7 MPa
Shore Hardness	ISO 868	79,2D	

Note 1 *Fin de l'essai à 5% d'allongement d'après la norme ISO 178 même si l'éprouvette ne rompt pas.

Note 2

The results presented are the averaged values of the PC-S 1.75mm range. For each test, 5 specimens per reference, previously placed at least 24 hours in climatic chamber (23°C - hygrométrie : 50%) have been tested.

The data should be considered as indicative values - Properties can be influenced by production conditions.

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