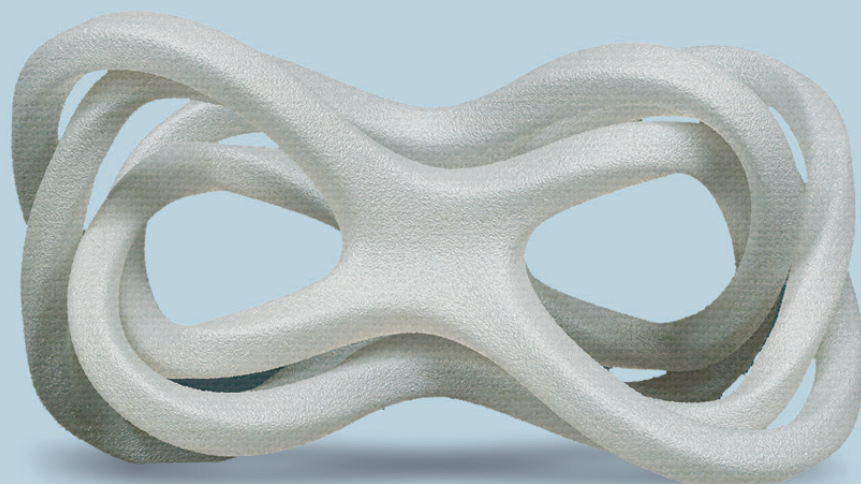




KIMYA PPSU-S



| DIELECTRIC PROPERTIES | HEAT RESISTANCE : 180°C
| GOOD RESISTANCE TO HYDROLYSIS

FILAMENT PROPERTIES

PROPERTIES	TEST METHODS	UNITS	VALUES
Diameter	INS-6712	mm	1.75 ± 0.1
Density	ISO 1183-1	g/cm ³	1,29
Moisture rate	INS-6711	%	<1
Glass transition temperature Tg	ISO 11357-1	°C	220

PRINT PARAMETERS

PRINTING DIRECTION	XY
PRINTING SPEED	15-30 mm/s
EXTRUSION TEMPERATURE	360-400°C
BED TEMPERATURE	140°C

PRINTED SPECIMENS PROPERTIES

	PROPERTIES	TEST METHODS	UNITS	VALUES
	T°C max of use	-	°C	176
	Thermal conductivity	ASTM E1530-11	W/mK	0,21
ELECTRICAL PROPERTIES	Dielectric Strength 0.0254mm	ASTM D149	kV/mm	>200
	Dielectric Strength 3.19mm	ASTM D149	kV/mm	15
	Dielectric constant	ASTM D150	-	3
	Volume resistivity	ASTM D257	ohms/cm	9,0*1015
TENSILE	Tensile modulus	ASTM D638	MPa	2340
	Strength	ASTM D638	MPa	69,6
	Strain at yield	ASTM D638	%	7,2
	Strain at break	ASTM D638	%	60 to 120
BENDING TEST	Flexural modulus	ASTM 790	MPa	2410
	Flexural strength	ASTM 790	MPa	91
IMPACT RESISTANCE	Izod Impact Strength (ep. Notched type A)	ASTM D1822	kJ/m ²	399

CERTIFICATION

FOOD CONTACT APPROVAL	EU 10/2011 (for all colors)
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