



PREMIUM FILAMENT

Premium filament with high resolution, ease of modeling, printing and engraving, high rigidity and low shrinkage.



PHYSICAL PROPERTIES	AVERAGE VALUES	UNITS	STANDARDS
SPECIFIC GRAVITY	1,24	g/cm ³	ASTM D792
MRF	7 - 9	g/10 min ²	ASTM D1238
RELATIVE VISCOSITY	4,0	1.0 g/dL	ASTM D5225
MAXIMUM FUSION TEMPERATURE	165 - 190	°C	ASTM D3418
GLASS TRANSITION TEMPERATURE	55 - 60	°C	ASTM D3418

MECHANICAL PROPERTIES	AVERAGE VALUES	UNITS	STANDARDS
TENSILE STRENGTH	9.500 (65,5)	psi (MPa)	ASTM D882
ELONGATION BY TRACTION	4,2	%	ASTM D882
IZOD IMPACT WITH NOTCHES	0,75 (40)	ft-lb/in (J/m)	ASTM D256
FLEXIBLE FORCE	18.300 (126)	psi (MPa)	ASTM D790
BENDING MODULE	646.000 (4357)	pasi (MPa)	ASTM D790
HEAT DISTORTION TEMPERATURE, 66 psi (0,45 MPa)	144	°C	ASTM E2092
CLARITY	Opaque (when it is crystalline)		

THERMAL PROPERTIES	AVERAGE VALUES	UNITS	STANDARDS
FUSION TEMPERATURE	210 (410)	°C (°F)	
FEED	45 (113)	°C (°F)	
FEED TEMPERATURE	190 (355)	°C (°F)	
COMPRESSION SECTION	200 (375)	°C (°F)	
MEASUREMENT SECTION	210 (390)	°C (°F)	
ADAPTER	210 (390)	°C (°F)	
MOLD	210 (390)	°C (°F)	
SCREW SPEED	20 - 150	rpm	
FILAMENT DIAMETER INSPECTION	+/- 3% max. deviation		

PRINTING PROPERTIES	AVERAGE VALUES	UNITS	STANDARDS
NOZZLE TEMPERATURE	190 - 230	°C	
HOT BED TEMPERATURE	Not necessary (50 - 70)	°C	

SPOOL SIZE	DIAMETER	ON REQUEST	COLOR	PACKAGING
300g	1,75mm			Cardboard box, vacuum and silica
1Kg	1,75 - 2,85 mm			Cardboard box, vacuum and silica
3Kg	1,75 - 2,85 mm	Yes		Cardboard box, vacuum and silica
5Kg	1,75 - 2,85 mm	Yes		Cardboard box, vacuum and silica
8Kg	1,75 - 2,85 mm	Yes		Cardboard box, vacuum and silica

* The indicated parameters are valid for correctly calibrated printers (PyD, mechanical and fuser).
* Supervised and tested manufacturing process (diameter, color and winding) to guarantee the quality of our product.