

TECHNICAL DATE SHEET

ABS FC by ELIX

ABS FOOD CONTACT & BIOCOMPATIBLE

PROPERTIES

PROPERTIES	VALUE	METOD AND CONDICTION	
PHYSICAL & MECHANICAL	Density	1,06 g/cm ³	ISO 1183-1
	Yield Stress	47 Mpa	ISO 527-1,2
	Elongation at Break	16%	ISO 527-1,2
	Tensile Modulus	2450 MPa	ISO 527-1,2
	Flexure Modulus	2500 MPa	ISO 178
	Izod notched impact strength	23°C = 14 KJ/m ² / -30°C = 7 KJ/m ²	ISO 180-1A
THERMAL	Vicat	97 °C	ISO 306
	Burning behavior UL 94	HB	

SUGGESTED PRINTER SETTING

	VALUE	UNIT
Extruder Temperature	230 - 250	°C
Print Speed	30 -50	mm/s
Printbed temperature	80 -100	°C
Drying Temperature	70 - 80	°C for 2-4 hr

PRODUCT DETAILS & CERTIFICATION

Diameter	1,75 mm 2,85 mm	Tolerance ± 0,05mm Tolerance ± 0,05mm
Major Benefits	<ul style="list-style-type: none"> - Easy printability - Excellent feature definition and surface finish - Low emission and odor grade - Biocompatible: ISO 10993-1 USP Class VI - Food contact approved material acc. EU No 10/20111 and 21 CFR FDA 	

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