

FS-11

TECHNICAL DATA SHEET

FILSHAPER FS-11

Support filament in VSHAPER offer. It is sold in natural color. FS-11 filament is mainly used as support material. We recommend using it in combination with ASA, ABS, PET-G, PA12, PA+GF, PA+CF, PEEK and TPU. It's soluble in FS-EX which is sold separately.

DELIVERY OF FILSHAPER FS-11

FS-11 filament has the nominal diameter of 1,75mm and is fit for FDM/FFF printing. It's supplied in 0,5kg spool. The spools are packed in vacuumed plastic bags to prevent hygroscopicity.

STORAGE

Store the filament in airtight packaging in dry place. The filament is usable up to 6 months after opening.

DRYING RECOMMENDATIONS

It is recommended to dry the filament before every usage to avoid stringing, bubbling or other defects: 4h in 80°C

Mechanical properties	Value	Unit	Test Standard
Tensile Modulus	-	MPa	-
Tensile Strength	-	MPa	-
Yield stress	-	MPa	-
Yield strain	-	%	-
Stress at break	-	MPa	-
Nominal strain at break	-	%	-
Flexural modulus	-	MPa	-
Flexural strength	-	MPa	-
Charpy impact strength, +23°C	-	kJ/m ²	-
Charpy impact strength, -30°C	-	kJ/m ²	-
Izod notched impact strength, +23°C	-	kJ/m ²	-
Izod notched impact strength, -30°C	-	kJ/m ²	-
Hardness (R-Scale)	-	-	-

Thermal properties	Value	Unit	Test Standard
Melting temperature	-	°C	-

Glass transition temperature	110	°C	-
Temp. of deflection under load A, 1 .80 MPa (HDT)	-	°C	-
Temp. of deflection under load B, 0 .45 MPa (HDT)	-	°C	-

Physical properties	Value	Unit	Test Standard
Density	1,1	g/cm ³	ISO 1183
Filament Diameter	1.75	mm	-
Linear Shrinkage	-	%	-

Burning behavior	Value	Unit	Test Standard
Flammability class	-	class	-

Rheological properties	Value	Unit	Test Standard
Melt mass-flow rate, MFR	5	g/10 min	ISO 1133
Temperature	200	°C	-
Load	10	kg	-

Characteristics	
Key Feature, Industrial Sector	-
Key Feature, Processing	3D printing
Key Feature, Solvent	FS-EX
Key Feature, Electrical	Insulator
Example applications	Support
Processing	FFF/FDM
Special Characteristics	Soluble in FS-EX
Color	Natural
Delivery form	Monofilament

Printing settings	VSHAPER 270			VSHAPER 500		
	STD	PRO	MED	STD	PRO	MED
Print temperature	-	-	-	260°C	260°C	260°C
Bed temperature	-	-	-	95°C	95°C	95°C
Chamber temperature	-	-	-	60°C	60°C	60°C
Adhesive plate material	-	-	-	V-SURFACE LT	V-SURFACE LT	V-SURFACE LT
Adhesive glue	-	-	-	Dimafix	Dimafix	Dimafix
Model shrinkage	-	-	-	-	-	-

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