

Materials List for:

Drawing and Hydrophobicity-patterning Long Polydimethylsiloxane Silicone Filaments

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Materials

Name	Company	Catalog Number	Comments
2 part PDMS Silicone	Dow Corning Sylgard 184	4019862	
Thermosel	Brookfield	HT-110 115, HT-115A DP	
viscometer	Brookfield	RVT115	
Disposable sample chamber	Brookfield	HT-2DB-100	
Disposable spindle	Brookfield	SC4-27D-100, SC4-DSY	
Extruder	Makin's	35055	
High-temperature silicone tubing	McMaster-Carr	51135K16	
Cylindrical Tube heater (Ceramic)			Ours is a custom: 17.0 mm inner diameter, 38.7 mm outer diameter, 107.7 mm length, 150 Ohm. Companies include Watlow and Omega. Critical design considerations: smaller inner diameters will require better furnace-filament alignment, longer tubes should also be sufficient.
Variable Transformer for heater	Variac	3PN1010	
Metering valve	Swagelok	SS-2MA1	
Corona Discharge Device	Electro-Technic	BD20A	
Arduino Kit	Elegoo	EL-KIT-003	
Nylon Fishing Line	EoongSng	B075DYVC3F	
Pasta Drying Rack	Norpro	B00004UE7U	
Infrared thermometer	Nubee	81175535214	
Flatbed scanner	Canon	CanoScan 9000F MKII	