

Parts and Supplies

Item	Cost	Pheeders per item	Unit cost	Cost for 6 Pheeders	Cost for 8 Pheeders	Mfg	Part	Supplier
Handwarmer	\$ 16.00	1	\$ 16.00	\$ 96.00	\$ 128.00	Augola	Rechargeable Electronic Hand Warmer, 5200 mAh 2-in-1 Double-Sided Heating Hand Warmer and Powerbank	Amazon
USB charger	\$ 12.00	2	\$ 6.00	\$ 36.00	\$ 48.00	generic	AmazonBasics One-Port 12W USB Wall Charger for Phone, iPad, and Tablet, 2.4 Amp, Black (2-Pack)	Amazon https://www.amazon.com/dp/B0773JFWDC/ref=vp_d_pb_TIER2_cs_lp_B01N2HIR9R_pd?encoding=UTF8&pd_rd_i=B0773BH5VV&pd_rd_w=PfNjE&pf_rd_p=b9c8a149-8025-4ee4-a81e-c3b28f174075&pf_rd_r=01bb3d2a-a6db-4863-a919-10fb4eded37a&pd_rd_r=01bb3d2a-a6db-4863-a919-10fb4eded37a&pd_rd_wg=hQ1B5&th=1
thermally conductive filament	\$ 70.00	14	\$ 4.58	\$ 70.00	\$ 70.00	TCPoly	Ice9 Flex filament, 500g, 1.75 mm	TCPoly https://tcpoly.com/product/ice9-flex/
color-changing PLA filament	\$ 33.00	8	\$ 4.13	\$ 33.00	\$ 33.00	Zi-Rui	3D Printer PLA Filament, Tri Color Changing with Temperature, Pine Green to Light Orange to Yellow,1.75mm (+/- 0.03mm),2.2LBS(1KG)	Amazon
PETG filament	\$ 25.00	22	\$ 1.14	\$ 25.00	\$ 25.00	Polymakers	Polylite PETG	Matterhackers https://www.matterhackers.com/store//polymaker-polylite-petg-white-175mm-1kg/sk/MNEZN97G
polyethylene capillary tubing	\$ 31.51	10	\$ 3.15	\$ 31.51	\$ 31.51	BD	14-170-11D, BD Intramedic™ PE Tubing #427420, 10 ft, ID 0.034 in, OD 0.050 in. (0.86 mm)	Fisher Scientific https://www.fishersci.com/shop/products/intramedic-pe-tubing-tubing-0-034-in-id-1x10ft/1417011d#?keyword=true
5 ml disposable luer-lock syringe	\$ 20.09	12	\$ 1.67	\$ 20.09	\$ 20.09	BD	SYRINGE ONLY LLOK SML 125/PKRX 14 829 45	Fisher Scientific https://www.fishersci.com/shop/products/bd-disposable-syringes-luer-lok-tips-luer-lok-volume-5ml/1482945#?keyword=true
hypodermic needles, 20G	\$ 8.40	50	\$ 0.17	\$ 8.40	\$ 8.40	BD	1", 20 Ga hypodermic needle	Fisher Scientific https://www.fishersci.com/shop/products/bd-general-use-precisionglide-hypodermic-needles-20-g-x-1-in-25mm-regular-bevel-yellow/14826d#?keyword=true
clear epoxy coating	\$ 22.35	20	\$ 1.12	\$ 22.35	\$ 22.35	Smooth-On	XTC-3D High Performance 3D Print Coating - 6 oz - Product No. M7RPHPZN	Matterhackers https://www.matterhackers.com/store/printer-accessories/xtc-3d-high-performance-3d-print-coating-6-oz
O-rings, 47 mm	\$ 7.92	12	\$ 0.66	\$ 7.92	\$ 7.92	USA Sealing	9262K434 Oil-Resistant Buna-N O-Ring, 1.5 mm Wide, 47 mm ID, Packs of 25	McMaster-Carr https://www.mcmaster.com/9262K434
TOTAL PARTS COST for N Pheeders			\$ 38.61	\$ 350.27	\$ 394.27			
Per Pheeder Cost				\$ 58.38	\$ 49.28			

Expendible supplies

epoxy mixing cup	\$ 5.51	50	\$ 0.11			Dynarex	Dynarex 4258 Medicine Cup (Polyethylene), 100 Count, 1 Ounce, Clear	Amazon
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1" foam brush for epoxy	\$ 13.00	48	\$ 0.27	\$ 13.00	\$ 13.00	Jen Mfg.	Jen Mfg. 1" Foam Paint Brushes Box of 48 Brushes	https://www.amazon.com/Dynarex-4252-1-Medicine-Polyethylene-Sleeve/dp/B01N6MXK13/ref=sr_1_1?dchild=1&keywords=Dynarex+4258+Medicine+Cup+%28Polyethylene%29%2C+100+Count%2C+1+Ounce%2C+Clear&qid=1590699021&sr=8-1	Amazon
Parafilm M	\$ 36.00		\$ 36.00			Bemis	Bemis™ Parafilm™ M Laboratory Wrapping Film	https://www.amazon.com/gp/product/B01J0617RO/ref=ppx_vo_dt_b_search_asin_title?ie=UTF8&psc=1	Fisher Scientific
Collagen casing	\$ 12.00		\$ 12.00			LEM Products	LEM Products Fresh Clear Edible Collagen Casing, 32 mm x 15 m	https://www.fishersci.com/shop/products/curwood-parafilm-m-laboratory-wrapping-film-4/1337410	Amazon
Alternatives								https://www.amazon.com/LEM-Products-Edible-Collagen-Casing/dp/B002L7UQ5E?th=1&psc=1	
Blunt hypodermic needles, 20G	\$ 38.37	50	\$ 0.77			CPS Instr.	Dispensing needle, 20 Ga	https://cpsinstruments.com/product/dispensing-needles/	CPS Instruments