

Materials List for:

Fabrication of Large-area Free-standing Ultrathin Polymer Films

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Materials

Name	Company	Catalog Number	Comments
Vynilec E	SPI		
ethyl lactate,>98%, FCC, FG	Sigma-Aldrich	W244007-1KG-K	
4" silicon wafers <100>, Single side polished	International Wafer Service		
sulfuric acid, 98%, ACS reagent grade	Sigma-Aldrich	320501-6X500ML	
hydrogen peroxide, 30%, semiconductor grade	Sigma-Aldrich	316989-3.7L	
isopropanol, ACS grade, 4 L	Fisher Scientific	A464-4	
dichloromethane, ACS grade	Alfa-Aesar	22917	
deionized water, distilled			
PDAC reagent (Sigma-Aldrich 409014)	Sigma-Aldrich	409014	
Spin Coater	Laurell Technologies	WS-650-23	
Barnstead/Thermolyne Super Nuova explosion-proof hot plate			
explosion-proof forced air oven	VWR	1330 FMS	
balance with a range of 1 mg to 1,020 g	Mettler Toledo	MS1003S	
reflectance spectrometer	Filmetrics	F20-UV	
manipulator consisting of a Klingler tilt stage, a Brinkman rack-and-pinion and a lab jack			
Cutting tool/template, LLNL-built, no drawings			
straight edge, LLNL, no drawings			
Tent hoop, LLNL			
culture dish 190 mm x 100 mm, Pyrex	VWR		
20 ml beaker, Pyrex	VWR		
250 ml beaker, Pyrex	VWR		
1,000 ml beaker, Pyrex	VWR		
60 ml glass vial with plastic stopper	VWR		
Petri dish, 150 mm diameter x2, Pyrex	VWR		
600 ml beaker x2, Pyrex	VWR		
tweezers, stainless steel			
cutting blade	Exacto		

clean room wipes	Contec	PNHS-99	
polyester knit 9/91 IPA/DI water wipes	Contec	Prosat	
Fluoroware wafer trays	Ted Pella	1395-40	
Nylon Micro fiber (camel hair)			
Disposable BD 3-ml plastic syringe	VWR		
0.2 μ m Luer-lock PTFE filters	Acrodisc		
0.45 μ m Luer-lock PTFE filters	Acrodisc		