

Materials List for:

Soft Lithographic Procedure for Producing Plastic Microfluidic Devices with View-ports Transparent to Visible and Infrared Light

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Materials

Name	Company	Catalog Number	Comments
Chemical			
Trichloro(1H,1H,2H,2H-perfluorooctyl)silane 97%	Sigma Aldrich	448931-10G	
Sylgard 184 Silicone Elastomer Kit	Dow Corning		Polydimethylsiloxane or in short, PDMS
Norland Optical Adhesive 73	Norland Products Inc.	7304	
SU8 3010 photoresist	MicroChem	Y311060	
SU8 developer	MicroChem	Y020100	
Material			
Silicon wafer, 4 inch, prime grade	Bonda Technology Pte Ltd		
CaF2 IR-grade windows	Crystran, UK	CAFP10-1	10 mm diameter, 1 mm thickness
Acrylic templates			Custom made
Equipment			
UV-KUB 2 (UV LED exposure system)	KLOE		Emission spectrum 365nm ± 5nm
Newport UV lamp	Newport	Model 66902	50-500 Watt Hg arc lamp
CEE Spin coater	Brewer Science	Model 200x	
MJB4 mask aligner	SUSS MicroTec		
Precision digital hot plate	Harry Gestigkeit GmbH	2860SR	
Plasma Surface Technology	Diener Electronic GmbH + Co. KG		For O ₂ plasma treatment
IDP-3 Dry Scroll Vacuum Pump	Agilent Technologies		ultimate pressure 3.3 x 10 ⁻¹ mbar
Bruker IFS 66v/s FTIR Spectrometer	Bruker		