

Materials List for

3D Printing and *In Situ* Surface Modification via Type I Photoinitiated Reversible Addition-Fragmentation Chain Transfer Polymerization

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Materials

Name	Company	Catalog Number	Comments
1-pyrenemethyl methacrylate	Sigma-Aldrich	765120	
2-(<i>n</i> -butylthiocarbonothioylthio) propanoic acid	Boron Molecular	BM1640	
3D Printer	Photon	Mono S	light intensity at digital mask surface = 0.81 mW cm ⁻²
3D Printing Slicing Software	Photon	Photon Workshop V2.1.19	
40 kHz Ultrasonic Bath	Thermoline	UB-410	
Compressed Air	Coregas	230142	Tank operating at 130 kPa
Computer Assisted Design Program	SpaceClaim	SpaceClaim Design Manager V19.1	
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	Sigma-Aldrich	415952	
Ethanol Undenatured 100% AR	ChemSupply	EL043-2.5L-P	
Ethanol Wash bottle	Rowe Scientific	AZLWGF541P	
Fluorescence Imager	Bio-Rad	Gel Doc XR+	Uses a 302 nm gas discharge lamp as emission source
Light intensity power meter	Newport	843-R	
Mechanical Tester	Mark-10	ESM303	1 kN force gauge M5-200
Moldable plastic film	Parafilm	PM992	
<i>N,N</i> -dimethylacrylamide	Sigma-Aldrich	274135	
<i>N,N</i> -Dimethylformamide HPLC	ChemSupply	LC1051-G4L	
Poly(ethylene glycol) diacrylate average Mn 250	Sigma-Aldrich	475629	
Post Cure Lamp	Leoway	B0869BY79P	60 W 405 nm
Standards document	ASTM	ASTM Standard D638-14	
Tensile testing machine	Mark-10		
UV Light	Fisher Scientific	11-982-30	6 W Spectroline E-Series, Gas discharge lamp

Vortex Mixer IKA Vortex 3	LabTek	33400001	
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