

Materials List for:

A 3D-printed Chamber for Organic Optoelectronic Device Degradation Testing

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Materials

Name	Company	Catalog Number	Comments
ORION DELTA DESKTOP 3D PRINTER RTP	SeeMeCNC	87999	Known in Report As: 3D Printer
1.75 mm PLA Filament	SeeMeCNC	50241	Known in Report As: PLA
Somos® WaterShed XC 11122 chamber	Somos	printed at Custom Prototypes, Toronto.	https://www.dsm.com/products/somos/en_US/products/offerings-somos-water-shed.html Known in Report As: Water resistant polymer
CURA	CURA		https://ultimaker.com/en/products/cura-software Known in Report As: slicing software
Soldering iron with 600° F tip	Weller	WTCPT	
Xtralien X100 Source Measure Unit	Ossila	E561	Known in Report As: SMU
ZIF Test Board for Pixelated Anode Substrates	Ossila	E221	Known in Report As: Zero insetion force/ZIF Test Board;
BNC Cable			
Generic USB A - B			
Generic USB A - Micro			
#12 O-Ring			Source unkown Known in Report As: o-ring
116 Butyl O-Ring	Global Rubber Products	116 VI70	Bought in-store Known in Report As: o-ring
Retaining ring	McMaster	NA	3D printed in-house
Bottom Chamber	McMaster	NA	3D printed in-house
Top Chamber	McMaster	NA	3D printed in-house
KF50 Cast Clamp (Aluminum)	Kurt J. Lesker	QF50-200-C	
KF50 Centering Ring (Aluminum)	Kurt J. Lesker	QF50-200-BRB	
Sn60/Pb40 Solder	MG Chemicals	4895-2270	
#4-40 x 3/16" machine screw			Hardware store
#4-40 IntThrd Brass TaperSingleVane Insert For Thermoplastic	Fastenal	11125984	Fastenal requires to be affiliated with company/university Known in Report As: #4-40 brass tapered threaded insert
Varian Torr Seal Vacuum Equipment High Vacuum Epoxy	Vacuum Products Canada Inc.		Known in Report As: low-pressure epoxy
Smiths Interconnect/IDI Contact Probes HEADED RADIUS	Mouser Electornics	818-S-100-D-3.5-G	Known in Report As: pogo pin
Smiths Interconnect/IDI Contact Probes Receptacle Solder Cup	Mouser Electornics	818-R-100-SC	Known in Report As: solder cup

1/4" Teflon Tubing			Hardware store
Teflon tape			Hardware store
1/4" Tube x 1/8" Male NPT Nickel Plated Brass Push-to-Connect Connector	Fastenal	442064	Not the same ones used for this study, but are functionally equivalent Known in Report As: push-to-connect pneumatic connector
1/8" NPT Tap and T-wrench			Hardware store
1/4" Tube Push-to-Connect Manually Operated Valves	Fluidline	7910-56-00	Known in Report As: manually operated push-to-connect valves
Adafruit DHT22 Humidity Sensor (small)	Digi-Key	385	Known in Report As: internal humidity sensor
Adafruit DHT22 Humidity Sensor (large)	Digi-Key		Known in Report As: external humidity sensor
Arduino Uno	Arduino		
Glovebox environment			
10 kOhm Resistor			
Oscilla Xtralien Scientific Python IDE	Oscilla		https://www.ossila.com/pages/xtralien-scientific-python Known in Report As: Python IDE