

ActivInk™ P2100



Materials Properties

Chemical Structure:	Confidential
Physical Form:	Brown solid
Purity:	> 99.5%
Melting Point:	Confidential
Solubility:	Soluble in a variety of solvents (chlorinated & non-chlorinated)

Structure
Confidential

Can Publish Results: No

Electronic Properties

Optical Absorption (λ max.):	Confidential
HOMO / LUMO (by CV.):	Confidential
Abs. Coefficient:	Confidential
Bandgap:	Confidential

Typical Device Data

Carrier Mobility:

Deposition Method	Mobility	Device Stack
Spin-coat	1.0 – 2.0 cm^2/Vs	BCTG Glass(PET) / Au / dielec. / Au / L = 50 μm
Inkjet	1.0 cm^2/Vs	BCTG Glass(PET) / Au / dielec. / Au / L = 50 μm

Turn-on Voltage:	0 V
On/Off Ratio:	$1.0 \times 10^{4-5}$
Device Shelf Life:	Excellent
Recommended Contact Type(s):	Au, but will work with others.
Recommended Dielectric(s):	ActivInk™ D2400

FET Transfer Characteristic

Spin-Coat

Inkjet

Coming Soon

* Pulse bias stress is measured by holding $V_{sd} = 40\text{V}$, and cycle V_{gs} from -40V to $+40\text{V}$ at 1Hz. Operational lifetime is quoted as the number of cycles at which $I_{on, t} = .70 * I_{on, t=0}$