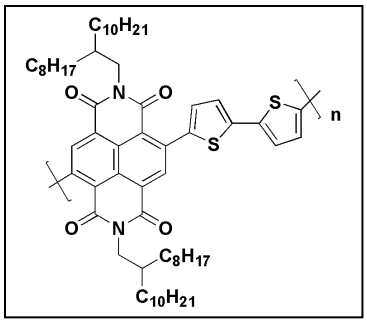
ActivInk™ N2200

Materials Properties



Chemical Structure: P(NDI2OD-T2)
Physical Form: Dark blue solid
Purity: > 99.5%
Melting Point: 308°C (DSC transition temperature)
Solubility: Chloroform, dichlorobenzene, toluene, xylene
PDI: 3-6 **Mw:** 100-150 K Da
Can Publish Results: Yes

Electronic Properties

Optical Absorption (λ max.): 700 nm
HOMO / LUMO (by CV.): 5.6 / 4.0
Abs. Coefficient: 3.0 X 10^4
Bandgap: 1.5 eV

Typical Device Data

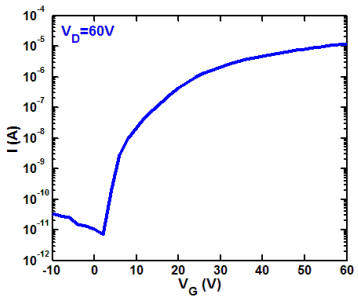
Carrier Mobility:

Deposition Method	Mobility	Device Stack
Spin-coat	0.1 – 0.8 cm^2/Vs	BCTG Glass (PET) / Au / dielec. / Au / L=50µm
Gravure	0.1 – 0.5 cm^2/Vs	BCTG PET / Au / dielec. / Au / L=50µm
Inkjet	0.1 – 0.2 cm^2/Vs	BCTG Glass (PET) / Au / dielec. / Au / L=50µm

Turn-on Voltage: 0 – 10 V
On/Off Ratio: 1.0 X 10^{5-8}
Device Shelf Life: Excellent
Recommended Contact Type(s): Au, but will work with others.
Recommended Dielectric(s): ActivInks™ D2400

FET Transfer Characteristic

Spin-Coat



Gravure