

ActivInk™ Portfolio:



N - Types

	Basic Data				Physical Properties				Electronic Properties				Typical Device Properties		
	Material	Structure	Allowed to Publish Results?	Purity	Physical Description	Melting point (°C)	Solubility (mg/ml)	Optical Absorption (max lambda, nm)	HOMO/LUMO (eV, by CV)	Abs. Coeff. (M ⁻¹ cm ⁻¹)	Bandgap (eV)	TFT Mobility (cm ² /Vs)	Von (V)	On/Off	Device Shelf Life
N0400	DFCO-4T	Y	>99.5%	Orange solid	291 - 294	Chloroform, dichlorobenzene	455	5.8/3.4	ND	2.4	Vapor: 0.1 – 0.45 [TCBG Si/SiO2-HMDS/Au / L=50um] Drop-Cast: 0.1-0.3 [TCBG Si/SiO2-HMDS/Au / L=50um]	10~30	10 ⁵ -10 ⁷	Good	
N0700	DFH-4T	Y	>99.5%	Orange solid	213	Chloroform, dichlorobenzene	398	6.2/3.3	5.4x10 ⁴	2.8	Vapor: 0.05 – 0.2 [TCBG Si/SiO2-HMDS/Au / L=50um]	10~30	10 ⁵ -10 ⁶	Good	
N0800	DFHCO-4T	Y	>99.5%	Orange solid	248	Chloroform, dichlorobenzene	461	6.4/4.0	ND	2.4	Vapor: 0.5 - 4.0 [TCBG Si/SiO2-HMDS(PS)/Au / L=50um]	10~30	10 ⁵ -10 ⁸	Good	
N0900	DFH-6T	Y	>99.5%	Orange solid	309	Insoluble	443	5.9/3.4	~5x10 ⁴	2.5	Vapor: 0.01 - 0.02 [TCBG Si/SiO2-HMDS/Au / L=50um]	30~40	10 ⁴ -10 ⁵	Good	
N1100	PDIF-CN2	Y	>99.5%	Red crystalline solid	302	Chloroform, dichlorobenzene	527	6.6/4.5	1x10 ⁵	2.1	Vapor: 0.3 – 0.6 [TCBG Si/SiO2-HMDS/Au / L=50um] Spin-Coat: 0.1 – 0.2 [TCBG Si/SiO2-HMDS or OTS/Au / L=50um]	(-30)-(-10)	10 ³ -10 ⁵	Excellent	
N1200	PD18-CN2	Y	>99.5%	Dark-red Solid	300	Chloroform, dichlorobenzene	527	6.4/4.3	1x10 ⁵	2.1	Vapor: 0.1 – 0.2 [TCBG Si/SiO2-OTS/Au / L=50um] Spin-Coat: 0.01 – 0.05 [TCBG Si/SiO2-OTS/Au / L=50um] Inkjet: 0.005 – 0.04 [TCBG and BCBG Si/SiO2-OTS/Au / L=50um]	(-10V) ~ 0V	10 ³ -10 ⁵	Excellent	
N1400	Confidential	Y	>99.5%	Red crystalline solid	300	Chloroform, dichlorobenzene	530	6.4/4.3	1x10 ⁵	2.1	Vapor: 0.1 – 0.2 [TCBG Si/SiO2-OTS/Au / L=50um] Spin-Coat: 0.1 – 0.2 [TCBG Si/SiO2-OTS/Au / L=50um] Spin-Coat: 0.1 – 0.4 [BCTG Glass/Au/diel/Au / L=50um]	(-10V) ~ 0V	10 ⁴ -10 ⁶	Excellent	
N1500	Confidential	N	>99.5%	Dark-red solid	Confidential	Confidential	Confidential	Confidential	Confidential	Confidential	Vapor: .5 - 1.0 [TCBG Si / SiO2-HMDS / Au / L=50um] Spin-Coat: 1.0 - 1.5 [BCTG Glass(PET) / Au / dielec. / Au / L=50um] Inkjet: Up to 1.0 [BCTG Glass(PET) / Au / dielec. / Au / L=50um]	(-5V) ~ 0V	10 ⁵ -10 ⁷	Excellent	
N2200	P(NDI2OD-T2)	Y	>99.5%	Dark blue solid	308 (DSC)	Chloroform, dichlorobenzene, toluene, xylene	~700	5.6/4.0	3x10 ⁴	1.5	Spin-Coat: 0.1 – 0.8 [BCTG Glass(PET)/Au/diel/Au / L=50um] Gravure: 0.1 – 0.5 [BCTG PET/Au/diel/Au / L=50um] Inkjet: 0.1-0.2 [BCTG Glass(PET)/Au/diel/Au / L=50um]	0V ~ 10V	10 ⁵ -10 ⁸	Excellent	
N3000	Confidential	N	>99.5%	Red solid	Confidential	Confidential	Confidential	Confidential	Confidential	Confidential	Vapor: ~1 [TCBG Si/SiO2-OTS/Au / L=50um] Spin-Coat: 2-2.5 [BCTG Glass(PET)/Au/diel/Au / L=50um] Inkjet: 2-2.5 [BCTG Glass(PET) / Au / dielec. / Au / L=50um]	~0V	10 ⁵ -10 ⁷	Excellent	

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