

ActivInk™ Portfolio



P - 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)	TFET Mobility (cm ² /Vs)	Von (V)	On/Off	Device Shelf Life
P0300	isoDH-6T	Y	99.50%	Orange solid	137	Chloroform, dichlorobenzene	429	5.8/3.0	5.4x10 ⁴	2.6	Spin-Coat: 0.01 – 0.1 [TCBG Si/SiO ₂ -HMDS/Au / L=50um]	(-10)V ~ 0V	10 ⁴ -10 ⁵	Excellent
P0400	DH-4T	Y	>99.8%	Yellow solid	184	Chloroform, dichlorobenzene, Toluene, o-Xylene, Anisole, 1,4-	402	5.8/2.9	~4x10 ⁴	2.8	Vapor: 0.05 [TCBG Si/SiO ₂ -HMDS/Au / L=50um] Drop-Cast: 0.01 [TCBG Si/SiO ₂ -HMDS/Au / L=50um]	~ 0	10 ⁴ -10 ⁶	Good
P1100	DS6T2	Y	99.50%	Purple solid	300 (DSC Transition)	Chloroform, dichlorobenzene, THF	544	5.2/3.3	N.A.	1.9	Spin-Coat: 0.05 – 0.1 [TCBG Si/SiO ₂ -HMDS/Au / L=50um]	(-) ~5V	10 ⁵ -10 ⁷	Good
P1200	DS6T1	Y	>99.5%	Purple solid	257 (DSC)	Chloroform, dichlorobenzene, THF	521	5.3/3.5	NA	1.8-2.0	Spin-coat: ~0.05-0.1 [TCBG Si/SiO ₂ -HMDS/Au / L=50um]	0	10 ⁴ -10 ⁵	Good
P2100	Confidential	N	>99.5%	Brown solid	Confidential	Confidential	Confidential	Confidential	Confidential	Confidential	Spincoat: ~1-2 [BCTG Glass(PET)/Au/diel/Au / L=50um] Inkjet: ~0.3-0.6 [BCTG Glass(PET)/Au/diel/Au / L=50um]	0	10 ³ -10 ⁵	Excellent

Dielectrics

Basic Properties				Physical Properties				Electronic Properties				Typical Device Data				
Material	Structure	Allowed to Publish Results?	Physical Description	Purity	Solubility	Melting point (°C)	Crosslinking dosage	Curing Wavelength (nm)	Film Deposition	k	Abs. Coeff.	Preferred Architecture	Recommended Semiconductor Type	Typical Thickness	Leakage current density	Breakdown field
D1400	Confidential	N	White solid	99.50%	Confidential	Confidential	5-10J/cm ² at 300nm wavelength (254nm or 300nm UV req.)	240-310	Spin-Coat	3.5-4.0	Mostly transparent	BG	Small molecule or polymer	400nm-1um	~1x10 ⁻⁸ A/cm ² at 2MV/cm	4-5MV/cm
D2400	Confidential	N	Formulation	N/A	Confidential	Confidential	NA	NA	Spin-Coat	3.5-4.0	Mostly transparent	TG	Polymer	400nm-1um	~1x10 ⁻⁸ A/cm ² at 2MV/cm	4-5MV/cm

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