

Ion-Electron conducting polymers

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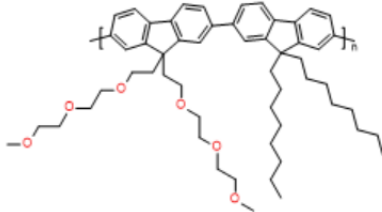
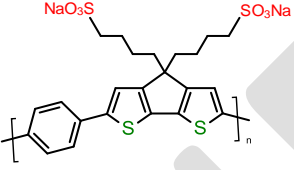
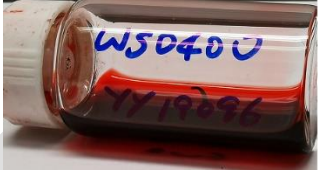
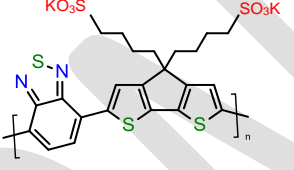
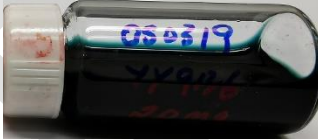
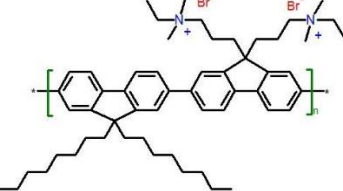

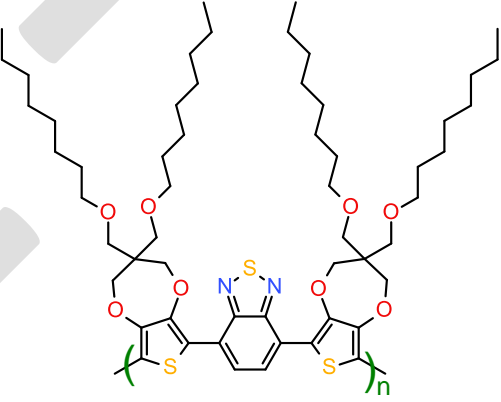
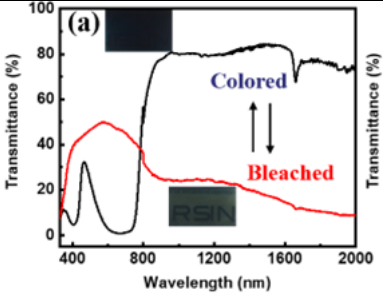
Organic Nano Electronic(ONE=1)materials for these who understand quality

Conjugated polymers that allow simultaneous transport of ionic and electronic charge carriers have been demanded for a wide range of applications, including energy storage, electrochromic devices, neuromorphic computing and organic bioelectronics. Flanking conjugated backbones with long glycol side chains may enhance their interaction with hydrated ions and water and therefore facilitate electrochemical switching in aqueous solutions.

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IM Material	Common Name CAS No.	Structure	Specifications
OS0400-g	P(gNDI-gT2) 2186673-54-9		Deep green to black solid Mw ~30K / PDI~2.5 Soluble in CHCl ₃ , TCE, and other selected solvents
OS0400-G	P(gNDI-T2)		Purple-brown solid Mw ~50K / PDI~3 Soluble in CHCl ₃ , TCE, and other selected solvents
OS0786	3EO-TFB TFB-TEG		Shine greenish yellow solid Mw ~35K / PDI~2.5 Soluble in CHCl ₃ , THF, and other selected solvents
OS1009	3EO-PFB PFB-TEG		Shine greenish yellow solid Mw ~35K / PDI~2.5 Soluble in CHCl ₃ , THF, and other selected solvents

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OS0036	PF-TEG		Beige to light yellow solid Mw ~80K / PDI~3.0 Soluble in low alcohol and other selected solvents
WS0400 OS0400WS	PCPDTPhSO ₃ Na CAS# 1565790-40-0		Deep red, Mw ~40K, PDI~ 3 
OS0319	PCPDTBTSO ₃ K CAS# 1565790-31-9		 Dark green, soluble in water
OS0995	PFN-Br CAS # 889672-99-5		Yellow-green particle Soluble in Methanol and other selected solvent. Not soluble in chloroform. Mw ~50K, PDI ~2.5
OS1799	PNDI-F3N-Br CAS#: 2169941-79-9		Dark green particle Soluble in Methanol and other selected solvent. Not soluble in chloroform. Mw ~40K, PDI ~2.5
ECGR01	EC green polymer-1 CAS# 1150123-98-0		 Adv. Funct. Mater. 2021, 2010022 Electrochromic polymer for flexible light valve

Other glycol flanked conjugated polymers, electrochromic polymers and polymeric electrolytes can be custom made on demand, please contact info@1-material.com

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