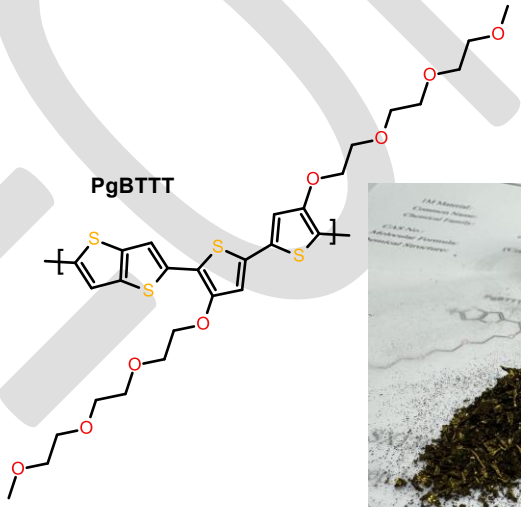
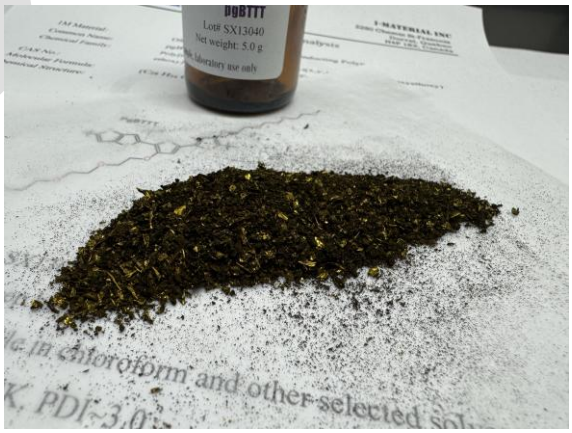
1-MATERIAL INC
2290 Chemin St-Francois
Dorval, Quebec
H4P 1K2, Canada

Certificate of Analysis

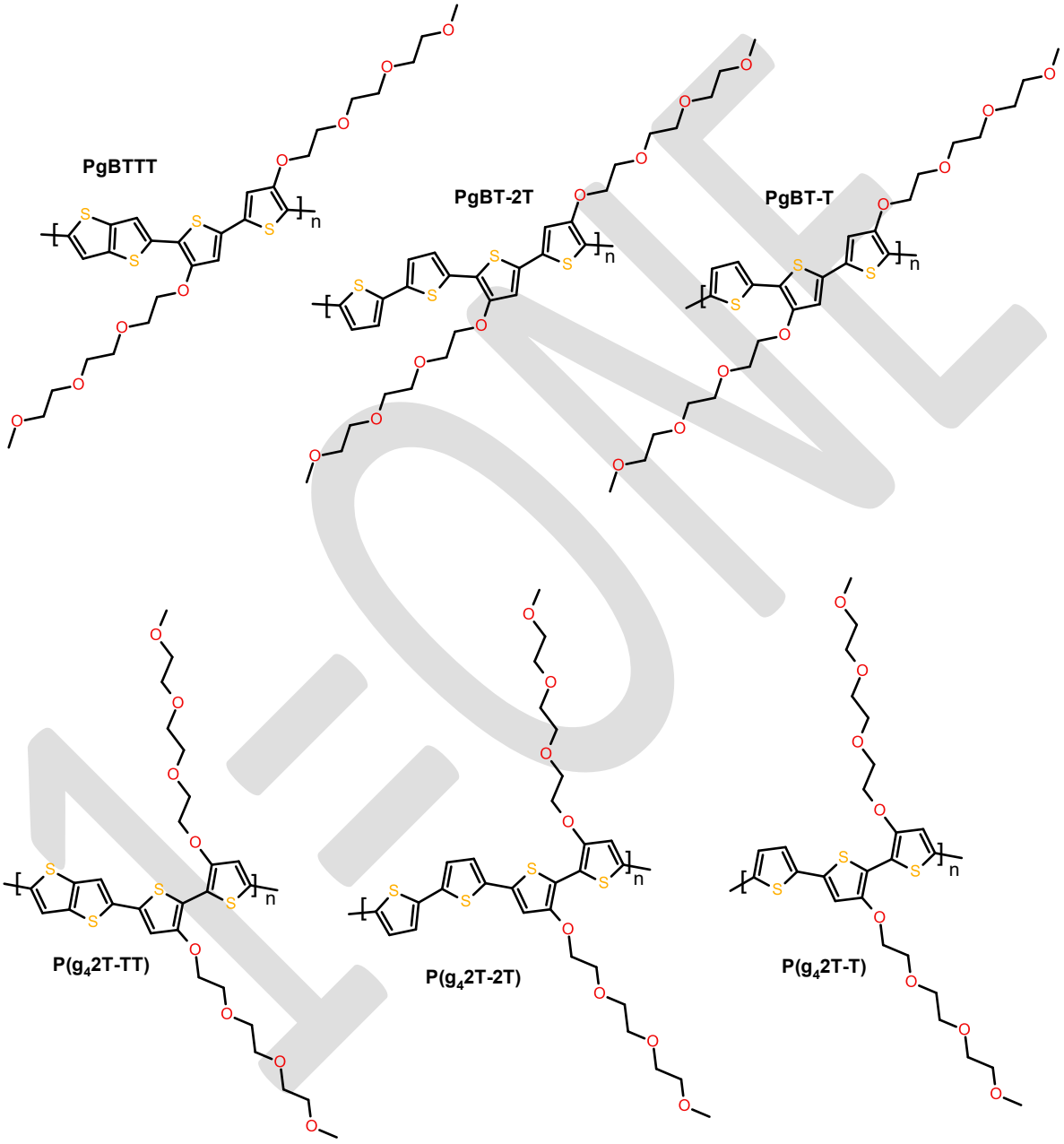
1M Material:	Organic Mixed Ion-Electron Conducting (OMIEC) Polymer
Common Name:	pgBTTT, twin of P(g$_4$2T-TT)
Chemical Family:	Poly[thieno[3,2-*b*]thiophene-2,5-diyl[5,5'-bis[2-[2-(2-methoxyethoxy) ethoxy]ethoxy][2,2'-bithiophene]-5,5'-diyl]]
CAS No.:	1404493-48-6
Molecular Formula:	$(C_{28}H_{34}O_8S_4)_n$
Chemical Structure:	





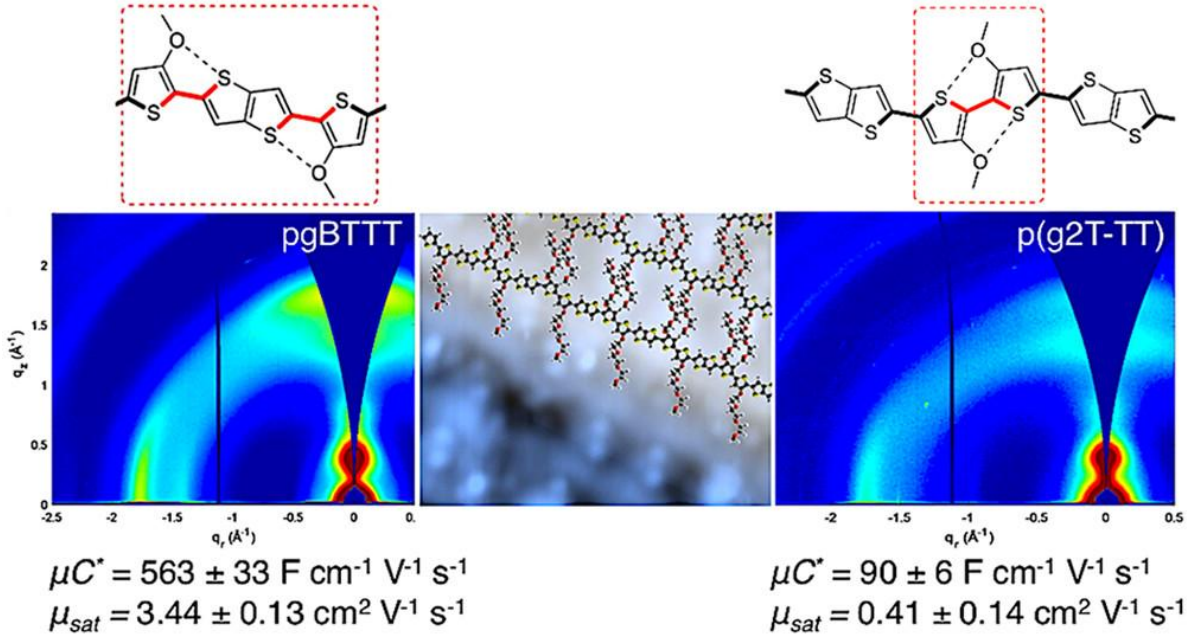
Lot No.:	SX13040
Appearance:	Deep purple to black solid
Solubility:	Soluble in chloroform and other selected solvents
Molecular Weight:	Mw ~20K; PDI~3.0 (estimated)

PgBTTT's twin brothers P($g_4$2T-TT) and their expanded family



Selected References:

(1) Regiochemistry-driven Organic Electrochemical Transistor Performance Enhancement in Ethylene Glycol Functionalized Polythiophenes
J. Am. Chem. Soc. 2021, 143, 11007−11018



(2)

(2) Toward Sustainability in All-Printed Accumulation Mode Organic Electrochemical Transistors
Adv Funct Materials, Volume: 34, Issue: 28, First published: 11 March 2024,