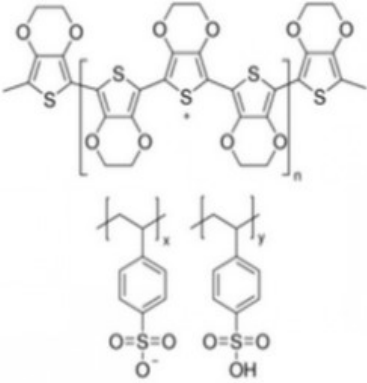


PEDOT/Pss

Chemical Name	Poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate)
Synonyms	PEDOT/Pss, PEDOT:Pss
Molecular Structure	 <p>The diagram illustrates the molecular structure of PEDOT/Pss. It features a PEDOT chain (poly(3,4-ethylenedioxythiophene)) represented by a series of thiophene rings with ethylenedioxy side groups, and a PSS chain (poly(styrenesulfonate)) represented by a polystyrene backbone with sulfonate groups. The two chains are shown as separate components, with the PSS chain having a sulfonate group (-SO₃H) and the PEDOT chain having a sulfonate group (-SO₃⁻).</p>
Electric conductivity (s/cm)	500
composition	PEDOT content, 0.3 wt. %
	PSS content, 0.7 wt. %
concentration	1.0 wt % dispersion in H ₂ O
Appearance	Dark Blue
Viscosity (mpa.s)	20-30
Coating film appearance	Transparent
Denity	1g/cm ³
Boiling Point	Approx 100 °C
Application	<p>Used in OPV applications, for example as a recombination layer for bulk heterojunction tandem solar cells.</p> <p>Virtually 100% absorption from 900-2,000 nm. No absorption maximum from 400-800 nm. Conductive polymer blend.</p>