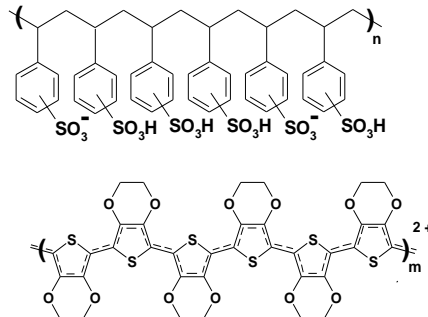


CLEVIOS™ PH

Chemical Formula



Poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate)

Description of Product Aqueous dispersion, blue liquid.

Synonyms / Abbreviations PEDT / PSS, PEDOT / PSS

Chemical Characteristics¹

(Mass fraction in % [cg/g]; ppm [$\mu\text{g/g}$])

	Limit		
Sodium	max.	500	ppm
Sulfate	max.	80	ppm

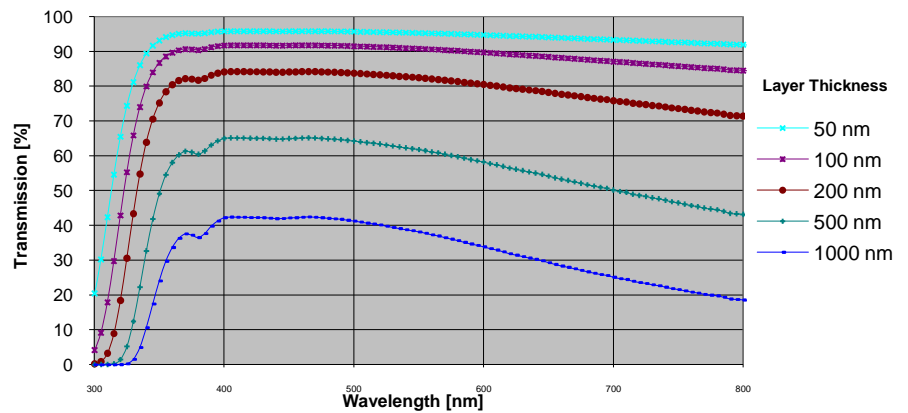
Physical Characteristics¹

Solid content	1.2	-	1.4	%
Viscosity	15	-	30	mPa·s
pH-value	1.5	-	2.5	
Surface resistivity	max.	10		MΩm/sq

Technical Data (guide values, not a specification)

Conductivity	max.	10	S/cm	(depending on the type of coating formulation)
Density at 20 °C		1.003	g/cm ³	
Mean particle size	approx.	30	nm	(size of the swollen gel particles)
Refractive index at 589 nm		1.5228		
Surface tension at 20 °C		71	mN/m	

Transmission of dry PEDOT/PSS in the UV/VIS range of light



Storage and Handling **Avoid freezing!**

Storage and handling are subject to the rules and regulations in the country of use. When stored at temperatures between 5°C and a maximum of 30°C, CLEVIOS™ PH will remain stable for 9 months from date of production in sealed original containers. After opening the containers must be well closed to prevent the evaporation of water which may result in the formation of a non re-dispersible film. The product is sensitive to frost and should therefore not be stored at temperatures below 5°C. The product cannot be used if it has been frozen. Brief heating to max. 50°C has no adverse effect on product properties.

Hazards identification See material safety data sheet.

Documentation An inspection document in accordance with EN 10204 is supplied with every commercial order. Inspection documents for samples are supplied on request.

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