

PEDOT/PSS (CLEV IOS AL 4083)

产 品 报 告

基本信息

货号: MTW-PSC-H-004

名称: 聚(3,4-亚乙基二氧噻吩)/聚苯乙烯磺酸 (PEDOT/PSS) (CLEV IOS AL 4083)

Name: Poly(3,4-ethylenedioxythiophene)/poly(styrenesulfonate) (CLEV IOS AL 4083)

CAS 号: 155090-83-8

分子式: $(C_6H_6O_2S)_x(C_8H_8O_3S)_y$

分子量: 70000-90000

包装: 50 毫升, 100 毫升, 1000 毫升

保存: 5 度冰箱

用途: 钙钛矿太阳能电池电子导电层或空穴缓冲层

主要技术参数

项目 (TEST)	技术指标 (SPECIFICATION)
外观 (Appearance)	深蓝色液体 (Dark blue liquid)
质量比 (PEDOT: PSS, W/W)	1:2~1:6

固含量 (Solid content, %)	1.3~1.7
电阻 (Resistance, Ohm cm)	500-5000
钠(Na,) (Sodium, ppm)	≤400
硫酸根(SO4) (Sulfate, ppm)	≤40
粘度 (Viscosity, mPa•S)	5-12
PEDOT 功函数 (Work function of PEDOT, eV)	~5.2
粒径(D50) (Particle size, nm)	≤80 (after swelling)
粒径(D90) (Particle size, nm)	≤100 (after swelling)
沸点(Boiling point, °C)	~100

膜层旋涂方法

PEDOT:PSS (CLEVIOS AL 4083) layers with thickness of about 50 nm were spin-coated onto ITO substrates at 4,000 rpm for 60 s and then baked at 120 ° C for 20 min in air.