

Transparent high conductive coating solution

Denatron Type-P PT-448

- The 2 components water based solution formulated the conductive polymer(PEDOT/PSS) .
- Specialized formulation for Off-Line coating process trays and films.
- Good adhesivity on usual substrates such as Glass, PET, PC, Acryl and other films.

Liquid properties

Items	Component A	Component B
Appearance	Dark blue	Milky white
Viscosity	10 - 50 mPa·s	2 - 30 mPa·s
pH	2 - 4	※after mixture
Solid Content	2.5%	※ after mixture
Shelf life	@5dC > 6 months	> 6 months
	@25dC > 3 months	> 3 months

Film properties (Coating on PET film)

Items	Ex.1	Ex.2
Mixing ratio (A:B)	A : B = 4 : 1 @weight ratio	
Usage g/m ²	8	16
Total Transmittance %	> 95	*depends on dilution condition
Initial sheet resistance Ω/sq.	250	150
Sheet resistance after rubbing test	no change	* Non-Woven 200g × 20cyc
Sheet resistance after 85dC/85%Rh *500 hours	no change	
Sheet resistance after 85dC *100 hours	no change	

Example direction how to coat

- ① Add each component gradually in above solvent with mixing. *Caution; Don't drip rapidly
- ② Apply with the specified coating thickness after calculating the target usage of PT-448.
*For example, if you want to apply 16g/m² of PT-448 and expect above 'Ex.2' properties;
e.g.1; Undiluted solution apply with 16um(=16g) coating thickness
- ③ Dry up over 130dC~ * 1~2 minutes for drying up solvent and cross linked.
* Your dry condition might be not enough because heating capability is depends on oven..
If the surface still has tackiness, it would be better to dry up higher temp. and longer minutes.

