

Denatron Special site

Transparent antistatic coating solution

Denatron Type-C

C-169PF

- The 2 components water based solution formulated SW-CNT(single wall carbon nanotube) .
- Excellent antistatic durability due to inorganic conductive material not like conductive polymers.
- Good adhesivity on usual substrates such as Glass, PET, PC, Acryl and other films.

Liquid properties									
Items		Component A		Component B					
Appearance		Black		Milky white					
Viscosity		30 - 40 mPa•s		3 - 13 mPa•s					
pН			5 - 7	*after mix					
Solid Content			4.2%	*after mix					
Shelf life	@5dC	> 6 months		> 6 months					
	@25dC	> 3 months		> 3 months					

Film properties (Coating on PET film)								
Items	Ex.1	Ex.2	Ex.3	Ex.4	Ex.5			
Mixing ratio (A:B)	A : B = 3 : 2 @weight ratio							
Usage g/m	1.00	0.40	0.31	0.24	0.20			
Total Transmittance %	>99							
Initial sheet resistance Ω /sq.	2E6	6E6	3E7	5E7	1E8			
Sheet resistance after rubbing test	no change * Non-Woven500g × 20cyc							
Sheet resistance after 85dC/85%Rh *1000 hours	no change							
Sheet resistance after 95dC *1000 hours	no change							

Example direction how to coat

 Prepare dilution solvent (e.g.50% ethanol*) in a bottle. *Pure water : Ethanol = 50 : 50 @weight ratio
Add each component gradually in above solvent with mixing. *Caution; Don't drip rapidly
Apply with the specified coating thickness after calculating the target usage of C-169PF.
*For example, if you want to apply 0.20g/m of C-169PF and expect above 'Ex.5' properties; e.g.1; Dilute 20times and apply with 4um(=4g) coating thickness (4/20=0.20) e.g.2; Dilute 10times and apply with 2um(=2g) coating thickness (2/10=0.20)
Dry up over 100dC~ * 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.

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