



Conductive Polymer Ink
SEPLEGYDA®

SEPLEGYDA (Conductive polymer ink) is based on thiophenes with high transparency.
Various sheet resistance and transparency are available by controlling with our formulation technology.
SEPLEGYDA can show the additional function, such as reliability and hard coat.

AS series
HC series

Transparence anti-static ink

Excellent anti-static performance by thiophenes conductive polymer independent of low humidity.

Anti-static ink

SEPLEGYDA AS-Q : Excellent solvent resistance, pH neutral available

SEPLEGYDA AS-D : Excellent adhesive, pH neutral available

SEPLEGYDA AS-H : Quick drying property

SEPLEGYDA AS-S : Spray type, Water repellency

SEPLEGYDA AS-M : Hard coat, Glass application

Hard coat Anti-static ink

SEPLEGYDA HC-A : Hard coat, Organic solvent type

SEPLEGYDA HC-R : Hard coat, Water repellency

SAS-P series

IPA (Iso-propanol) based formulation ink

Conductive polymer with IPA solution, available to formulate the various polarity

SAS-F series

MEK (Methyl ethyl ketone) based formulation ink

Conductive polymer with MEK solution, available to formulate the various polarity

OC series

High conductive ink

Coated film shows the high conductivity and flexibility. Some types are available for fine patterning.

Coating type ink

SEPLEGYDA OC-AE : Heat curing

Patterning type ink

SEPLEGYDA OC-U : Light patterning available

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<http://www.shinpoly.co.jp>

1. Series

Transparence anti-static ink

	Solvent	Curing	pH	Remarks
AS-Q01	Water	Heat	2-8	Excellent solvent resistance, pH neutral available
AS-D018	Water	Heat	2-8	Excellent adhesive, pH neutral available
AS-H04	MEK base	Heat	5	Quickly drying property
AS-S07	Water/MeOH	Heat	4	Spray type, Water repellency
AS-M04	Water-EtOH	Heat	2-4	Excellent Glass Adhesion, Hard Coat (9H on glasses)
HC-A04	IPA	Heat + UV	-	Hard Coat (6H on glasses)
HC-R06C	MEK base	Heat + UV	-	Hard Coat (7H on glasses), water repellency

Solvent based formulation ink

	Solvent	Curing	pH	Remarks
SAS-P	IPA	-	-	Conductive polymer with IPA Available to mix with other polymer materials.
SAS-F	MEK	-	-	Conductive polymer with MEK Available to mix with other polymer materials.

High conductive ink

	Solvent	Curing	pH	Remarks
OC-AE503	Water-EtOH	Heat	2-3	Excellent Glass Adhesion High conductivity, heat curing
OC-AE516	Water-EtOH	Heat	2-3	High conductivity, heat curing, Excellent Glass Adhesion, Hard Coat
OC-U4	Water-EtOH	Heat + UV	2-3	High conductivity, Light patterning solution, UV curing

2. Properties

Transparence anti-static ink

	AS-Q01	AS-D18	AS-H04	AS-S05	AS-M04	HC-A04	HC-R06
Surface resistance (/sq)	10 ⁶ ~	10 ⁶ ~	10 ⁶ ~	10 ⁶ ~	10 ⁶ ~	10 ⁸ ~	10 ⁹ ~
Hardness (on glasses)	-	-	-	-	9H	6H	7H
Curing	Heat					Heat+UV	
Water repellency	-	-	-	-	-	-	-
Solvent resistance	Water						
	MeOH			×	×		
	EtOH						
	IPA						
	MEK	×	×	×	×	-	
	Acetone	×	×	×	×	-	
	Ethyl acetate	×	×	×	×	-	
Toluene	×	×		×	-		

High conductive ink

	OC-AE503	OC-AE516	OC-U4
Surface resistance (/sq)	210	400	364
TT(%)*	88.3	96.8	87.9
Substrate	PET	Glass	PET

* Included PET/Glass substrate

All Technical information described herein is presented as a reference and is not warranted.

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