

Technical Data Sheet

ORGACON EL-P inks

transparent conductive polymer inks for screen-printing

Agfa's ORGACON screen-printable inks are based on conductive polymer PEDOT/PSS and enable patterning of transparent conductive structures from plain down to resolution of 100 microns on flexible and rigid substrates such as PET, PC, PMMA, PI, and glass. ORGACON EL-P inks present excellent characteristics such as flexibility and formability for electrodes of electroluminescent lamps, capacitive touch sensors, and membrane switches.

TYPICAL VALUES

Property	Unit	Value	Typical features and applications
ORGACON EL-P3165			
SER @ 120	Ω /sq	375	Enhanced stability. Patterned transparent conductive structures for EL and capacitive touch applications. Suitable for long-run printing.
SER x OD* (ASTM D1003)		11	
Solid content	%	2,5	
Viscosity	Pas	>40	
ORGACON EL-P5015			
SER @ 120	Ω /sq	190	Patterned transparent conductive fine structures for EL and touch applications, OPV, ITO substitution
SER x OD* (ASTM D1003)		18	
Solid content	%	5,5	
Viscosity	Pas	>50	
(*) Lower value for SER x OD (Surface Electrical Resistance x Optical Density) indicates a higher opto-electrical performance.			

STORAGE AND SHELF LIFE

Storage and Shelf life			
Storage temperature (min-max)	°C	4 - 25	
Shelf life (stored at 4 - 25°C)	months	12	Starting from manufacturing date. Material kept in the original unopened container

PROCESSING GUIDELINES

- Use a polyester or stainless steel mesh and water and solvent resistant capillary film or emulsion
- ORGACON EL-P inks do not require dilution
- Curing at 130-120°C during 2-3 minutes for maximal conductivity. Minimum 80°C is needed.
- Contact us for best practice advice

HEALTH AND SAFETY

Please check the Safety Data Sheet at sds.agfa.com.

CONTACT

For more information, please contact Kayaku Advanced Materials, an authorized North American distributor:



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