

# 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
<b>ORGACON EL-P3165</b>			
SER(**)	$\Omega$ /sq	375 - 425	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	>25	
<b>ORGACON EL-P5015</b>			
SER(**)	$\Omega$ /sq	190 - 210	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	
(*) Guide values, not a specification			
(**) Printed on Autotype Autostat CT7; P120/34 screen; 300 mm/s; curing 3 min at 130°C.			
(***) 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	24	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](https://sds.agfa.com).

### CONTACT

For Global Sales or more information, please contact us via e-mail at [conductivematerials@agfa.com](mailto:conductivematerials@agfa.com) or via [www.agfa.com/conductivematerials](https://www.agfa.com/conductivematerials) .

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