



ORGACON™ High Transparent Conductive Screen Printing Ink: P 3042

Orgacon™ inks are specifically designed where highly transparent flexible conductive electrodes are needed. Orgacon™ products are based on the **ORGANIC CONDUCTIVE** polymer dispersion PEDOT/PSS and are developed and produced with Agfa-materials protected knowledge and technology.

P 3042 is a screen printing ink especially designed for optical high demanding applications such as resistive or capacitive touch pads and touch screens. With this ink line widths and gaps of 200µm can be achieved if the appropriate tools are used.

P 3042 can be printed on several non print-treated polymer substrates (PET, PC, PMMA) resulting in good adhesion.

Typical Applications

- Touch Pads
- Printed electrodes for capacitive and resistive Touch Screens
- Back lighted membrane and capacitive switches

Storage

Store the product between 2°C and 10°C.

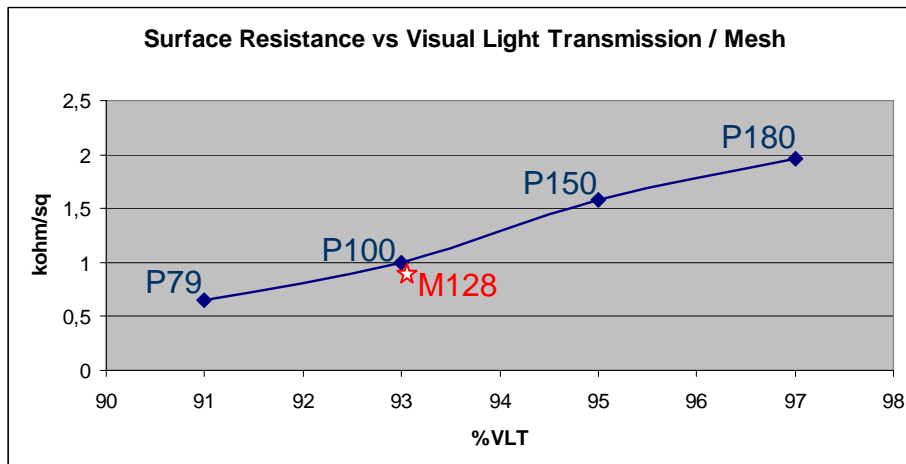
Health and Safety

See Material Safety Data Sheet.

Physical Properties

Active Chemical:	Conductive Polymer (PEDOT/PSS)
Colour:	Printed layer: transparent blue
Binder:	Thermoplastic Polymer >3%
Solid Content:	>4%
Viscosity:	> 8000 mPas
Shelf Life:	6 months stored between 2 and 10°C

Cured Characteristics Typical for P 3042



Processing conditions:

Screen printed on polyester substrate with Mesh (thr/cm) P79 –P180, M128; use solvent and water resistant capillary film
Thermal cured: 3 min@130°C.

Test conditions:

Viscosity: Brookfield DV-II +Pro plate cone CPE 041; 25C; SR 0.2/sec after 5min SR 4/sec and recover time of 2min.
SER: Surface Electrical Resistance measured with Rubby method
Adhesion: crosshatch tape test TESA #4122 on PET (Agfa)
Optical transparency: Macbeth TR924; white light; coating without substrate.

Processing recommendations

- P 3042 should be homogenized before use by careful stirring or shaking. Avoid air entrapment.
- Orgacon P 3042 does not require dilution.
- Polyester or stainless steel mesh can be used. For high resolution printing steel mesh with higher mesh and open area is recommended. (M128/28)
- Use water and solvent resistant capillary film compatible with the mesh count.
- Clean of screen with moderate pressure water jet directly after printing.
- Do not put used ink back in original jar.
- More details concerning high resolution printing of P 3042 is available on request.

Contacts

Distributors world wide: www.agfa.com/orgacon
More information via: info.orgacon@agfa.com

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