**Technical Data Sheet**

**MAGRON PE Ink**

**Piezoelectric Inks for Printed Electronics**

MAGRON piezoelectric inks are produced through a

high quality process in order to exhibit a unique set of

inherent piezo and pyroelectric proprieties. It can be

applied on various substrates, such as glass, PET , PC or

paper, by various printing techniques:

 High dielectric constant suitable for specific

applications.

 Great flexibility allowing the production of flexible

sensors.



Easy processability allowing different sensor

configurations.

. Screen printing

. Stencil

. Doctor blade

. Spray

 Custom formulation suitable for each type of

printing technique.

MAGRON piezoelectric ink is easily solubilized in

various solvents, showing distinctive properties such

as:

With a low cost solution, it is possible to produce and

implement

piezoelectric

sensors,

measuring

mechanical stress or electric field variations, on rigid

or flexible substrates.

 High strain with low applied voltage, which gives a

good actuation power.

**Instructions:**

Before use, place the ink in a mechanical stirring during 30 minutes. After the printing process, the ink must be

polarized to enhance their piezoelectric proprieties.

Base polymer

PVDF-TrFE

~ 150

~100

58

Melting Temp. range (°C)

Curie Temp. range (°C)

Flash point (°C)

Density (g/cm3)

1.9

**Piezoelectric values**

d33 (pC/N)

21

**Dielectric values**

Dielectric const. range @1 kHz, 25 °C

Coercive field (kV/cm) \*

Poling min. (kV/cm) \*

Poling max. (kV/cm) \*

**Mechanical values**

11.5

460

600

1000

Young Modulus range (GPa)

0.61

**\*** using the Corona method.

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Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the

appropriate SDS before using any of our products.

The information and the products are for use by technically skilled persons at their own discretion and risk and

does not relate to the use of this product in combination with any other substance or any other process.



