

SCREEN PRINTABLE PIEZORESISTIVE INK

PR3SP01 is a screen printable carbon-based piezoresistive ink. It is a low curable temperature ink that is flexible on an appropriate substrate. The ink can be typical use for pressure sensors for printed electronic applications.

INK FEATURES

Carbon-based	Piezoresistive
Temperarute resistance	Flexible
Low temperature curable	Stretchable on appropriate substrate
Easy screen printable	No harmful for health
Of easy cleaning	Applied to a variety of materials

INK PROPERTIES

Apparency	Dark grey/Black
Solid content (%)	15%
Viscosity:	15.000-90.000 cPs
Tensile strength	5.3 N/mm ²
Elongation at break	340%
Piezoresistive response	0-1000N

HANDLING GUIDELINES

Processing	The components are ready to use after mixer. The mixing ratio is 1:1
Printing equipment	Screen printer
Mesh count	61 - 100 lines per cm
Stencil	40 microns
Sueegee shore	Hardness shore A 54
Dry conditions	Room temperature or 100°C for 10 minutes in a regular or ventilated oven
Clean-up solvent	Magron's cleaning solvent Clear100NP on press wash and mesh opener <i>Warning- The mesh must be cleaned with the solvent and then washed with water and dry at a room temperature. The use of other screen cleaners may result on the mesh blocking.</i>
Substrates	PET, PEN, MELINEX, GLASS, TEXTILE, (...)
Storage	Should be kept well sealed in its container and stored at controlled temperature between 10-20°C.
Shelf-life	Ink in an unopened container has a recommended shelf life of 3 months from date of delivery Mixtures of the two components have a life of at least 12 hours