

DuPont Microcircuit Materials

Printed Electronics Product Overview

This is a product overview of DuPont Microcircuit Materials (MCM) offerings of functional inks for the Printed Electronics Market. There are several inks available depending on the specific application, substrate, and dispensing method. Please contact your local MCM representative for specific product recommendations.

Biosensor Materials

Product	Material	Description
Electrode Materials		
BQ221	Carbon	High Activity for Blood Glucose Sensors
BQ242	Carbon	Good Activity for Blood Glucose Sensors
7105	Carbon	Excellent Conductivity for All Applications
7102	Carbon	Good Conductivity for All Applications Including Polycarbonate
5870	Ag/AgCl	80/20 Ag/AgCl for All Sensor Types
5874	Ag/AgCl	68/32 Ag/AgCl for All Sensor Types
5876	Ag/AgCl	32/76 Ag/AgCl for Iontophoretic/Specialty Applications
5025	Silver	All-Purpose Conductor
5064	Silver	High Conductivity Silver Conductor
5028	Silver	Excellent Conductivity/May be Used on Polycarbonate
5524	Silver/Carbon	Silver/Carbon Blend (25 mohm/sq/mil)
BQ321	Platinum	Platinum Conductor for Sensors
BQ331	Gold	Gold Conductor for Sensors
Dielectric Materials		
5018	Dielectric	All-Purpose UV-Curable (Blue)
5018G	Dielectric	All-Purpose UV-Curable (Green)
5018A	Dielectric	All-Purpose UV-Curable (Colorless)
5036	Dielectric	All-Purpose Thermal Cure

RFID Antenna Materials

Product	Material	Description
5028	Conductor	High Conductivity Fast Drying Silver Conductor
5029	Conductor	Thick Printing Silver Conductor
5064	Conductor	High Conductivity Silver Conductor
5069	Conductor	Water Based Flexographic Silver Conductor

Membrane Touch Switch Materials

Product	Material	Description
5000	Silver	Silver Conductor for Low Voltage Applications
5021	Silver	Low Temperature Very Flexible Silver Conductor
5025	Silver	Silver Conductor for Higher Temperature
5028	Silver	High Conductivity Fast Drying Silver Conductor
5064	Silver	High Conductivity Silver Conductor
7102	Carbon	Carbon Conductor
3571	Dielectric	Blend Member Dielectric
5018	Dielectric	Blue UV Curable Dielectric
5018A	Dielectric	Colorless UV Curable Dielectric
5018G	Dielectric	Green UV Curable Dielectric
5036	Dielectric	Blend Member Dielectric Compatible with 7102 and 7082
7082	Resistor	1K Ohm/sq Resistor Ink
7105	Resistor	Highly Conductive Carbon Ink

Printed Materials for Printed Circuit Boards

Product	Material	Description
CB028	Conductor	Silver Conductor
CB100	Via Plug	Silver Via Fill
CB102	Via Plug	Solventless Silver Via Fill
CB200	Conductor	Copper Conductive Material
CB230	Conductor	Silver Coated Copper Solderable Conductive Material
CB459	Conductor	Platable Silver Conductor
CB500	Temporary Conductor	Silver Conductor Removable Plating Link for Electroplating Applications

Touch Screen Materials

Product	Material	Description
9169	Conductor	Low Temperature Silver Conductor for Adhesion on ITO
5018	Dielectric	Blue UV Curable Dielectric
7713	Conductor	500 C Fireable Silver Conductor
7723	Conductor	Lead-Free 500C Fireable Silver Conductor

Specialty Silver Materials

Product	Material	Description
4817N	Silver	Dip/Sprayable Plateable Silver Conductor
4922N	Silver	Brush/Band Plateable Silver Conductor
4929N	Silver	Screen Printable Plateable Silver Conductor
5064	Silver	All Purpose High Conductivity Silver Conductor
5504N	Silver	Screen Printable Plateable Thermoset Conductive Epoxy
5815	Silver	Dip/Sprayable Thermoset Conductive Epoxy

LuxPrint® Electroluminescent Materials

Product	Material	Description
8144	Carbon	Carbon Conductor for ITO
9145	Silver	Silver Conductor for ITO
7164	Translucent	Translucent Conductor
8153	Dielectrics	High K Dielectric
8150B	Phosphor	High Brightness White Phosphor
8150L	Phosphor	Long Life White Phosphor
8152B	Phosphor	High Brightness Blue Green Phosphor
8152L	Phosphor	Long Life Blue Green Phosphor
8154L	Phosphor	Long Life Yellow Green Phosphor
8155	Vehicle	Medium

DuPont MCM also offers a wide range of products for other Printed Electronic applications, including Flexible Displays and Printed Batteries. Please visit our website for technical information or contact us for specific product recommendations.

For more information on DuPont Microcircuit Materials products, please contact your local representative:

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