

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 Ionophoretic/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 |



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