DuPont 7082

CARBON CONDUCTOR

Technical Data Sheet

Product Description

DuPont 7082 carbon conductor may be used as a polymer thick film resistor. It can also function as a conductor in designs that tolerate high resistivity. Its major benefits include low cost and excellent screen life. It can be used with semiautomatic and manual printers. DuPont 7082 Carbon conductor has been designed for applications requiring small resistance changes.

Product Benefits

- High resistance

Processing

- **Screen Printing Equipment**
  Semiautomatic or manual
- **Screen Types**
  Polyester, stainless steel
- **Typical Cure Conditions**
  Box Oven: 120°C for 10 minutes
- **Typical Circuit Line Thickness Printed with 325-mesh stainless steel screen**
  7 - 14 microns
- **Clean-up Solvent**
  Ehylene glycol diacetate

Storage and Shelf Life

Containers should be stored, tightly sealed, in a clean, stable environment at room temperature (<25°C). Shelf life of material in unopened containers is six months from date of shipment. Some settling of solids may occur and compositions should be thoroughly mixed prior to use.

Table 1
Typical Physical Properties

Test	Properties
Sheet Resistivity (kΩ/sq/0.4 mil) or (ohm/sq/mil)	1.0 400
Adhesion/Tape Pull (3M Scotch Tape #600)	No material transfer
Abrasion Resistance, Pencil Hardness (ASTM D3363-74) (H)	> 2

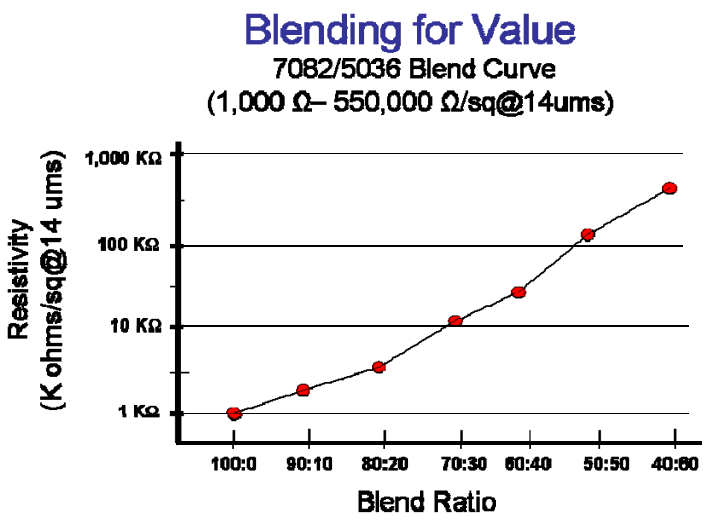
Table 2
Composition Properties

Viscosity (Pa.S) [Brookfield HBTD, 5rp, #14 spindle, 25ºC)	210 - 260
Thinner	DuPont 3610

Table 1 & 2 show anticipated typical physical properties for DuPont 7082 based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.

Safety and Handling

For Safety and Handling information pertaining to this product, read the Material Safety Data Sheet (MSDS).



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MCM7082 (10/2009)