

3571 Blend Member/Dielectric

Polymeric Thick Film Composition

All values reported here are results of experiments in our laboratories intended to illustrate product performance potential with a given experimental design. They are not intended to represent the product's specifications.

Product Description

Polymeric composition 3571 may be used as a blend member with 7082 to achieve higher resistance values than 7082 alone. It may also be used as a dielectric/encapsulant in appropriate circumstances.

Processing

- **Screen Printing Equipment**
Semi-automatic and manual
- **Substrates**
Polyester, polyimide, epoxy glass
- **Ink Residence Time on Screen**
> 2 hours
- **Screen Types**
Polyester, stainless steel
- **Cure Conditions**
120-130°C/5 mins.
- **Typical Thickness(after cure) Printed with 200-325 mesh Stainless Steel Screen**
0.5-1.0 mil

Storage and Shelf Life

DuPont thick film polymeric compositions should be stored at ambient temperatures. The shelf life of material in unopened containers is a minimum of six months from date of shipment. Compositions such as 3571 should be stored away from heat.

Safety and Handling

This product contains organic materials. The following precautions should be exercised when handling 3571:

- Use with adequate ventilation
- Avoid prolonged contact with skin. If contact with skin occurs, wash affected area immediately with soap and water
- Avoid prolonged breathing of vapor
- Dangerous if swallowed - DO NOT CONSUME
- Refer to MSDS for more details

Table 1
Typical Physical and Electrical Properties
on Polyester Film

Adhesion Crosshatch (ASTM D3359-78) Dielectric to Polyester Scotch Tape #600 Conductor to Dielectric	No transfer (5) B No transfer
Abrasion Resistance, Pencil Hardness (ASTM D3363-74)	>= 1H
Operating Use Temperature (dependent on conductor)	<= 90°C
Flexibility (180° crease over 5007)	No opens

Table 2
Composition Properties

Viscosity, (Pa.s) (Brookfield LVT, 6rpm, #2 spindle, 25°C)	2.0 - 4.0
Solids (%)	30 - 33
Coverage, cm²/g (Dependent on screen size and material)	
0.45 mil coating given by 280 -mesh polyester	500
0.6 mil coating given by 230-mesh polyester	375
1.0 mil coating given by 280-mesh stainless steel	290
1.1 mil coating given by 200-mesh stainless steel	240
Thinner	3610
Density, g/cm³	1.08
Color	Colorless

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Caution: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Medical Caution Statement," H-50102.

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