

MicromaxTM PE316

Electronic Inks and Pastes

Silver Conductor Paste

Micromax™ PE316 is a low temperature drying silver conductor capable of superior adhesion to PVDF.

Product benefits

- Superior adhesion to PVDF
- Low temperature curable as low 65°C
- · Screen printable, stencil enabled and dispensing

Product information

Solvent or thinner	Micromax™ 3610		
Solid content	65 - 69 ^[1] %		
[1]: 150°C/2h			

Rheological properties

Viscosity	35 - 45 ^[2] Pa	a.s
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[2]: Brookfield RVT, SC4-14/6R, 10 rpm

Application technique

Drying time	60	min
Drying temperature	65	°C

Typical mechanical properties

3 ^[0]	class
	3 ^[2]

[3]: ASTM D3359-78, no material removal on PVDF/PI/PET

Electrical properties

Volume resistivity	≤50 μOhm.cm
Surface resistivity	≤20 ^[4] mOhm per
	square

[4]: at 25.4µm

Storage and stability

Shelf life	6 ^[5] months

[5]: in unopened containers, from date of shipment, at temperature <25°C

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Additional information

How to use

Processing

- Substrates
 - · Polycarbonate, surface treated polyester, and PVDF
- Screen types
 - Polyester, stainless steel, stencil
- Printing
 - · Reel to reel, semi automatic or manual
- Clean-up solvent
 - · Ethylene glycol diacetate
- Drying
 - Box oven: 65°C for 1 hour

Properties

 Information in this datasheet shows anticipated typical physical properties for MicromaxTM PE316 based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.

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.

Safety and handling

For safety and handling information pertaining to this product, read Safety Data Sheet (SDS).

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