

Exhibit K

(Filed Under Seal)

 Japanese Search Contact Us**UBE** / UBE Corporation

Corporate Information
Shareholders and Investors Information
Product Information
Research and Development
Sustainability

UPIA®

[TOP](#)[Product Information](#)[Product List](#)[Polyimide](#)

UPIA®

Polyimide varnish "UPIA®" is a polyamic acid precursor solution of polyimide (High-performance engineering plastics). It is the base for polyimide coated films which feature non-soluble and non-melting properties, high heat, chemical resistance, and electric insulation

properties achieved through high temperature curing and imidization.

Advantage of "UPIA®"

"UPIA®" was created from UBE's unique polyimide synthesis technology which delivers significant advantages.



#high heat resistance

#chemical resistance

#electrical insulation

#PI varnish

#PI plastic

#coating

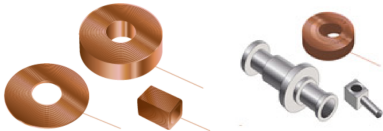
#OLED

Applications

and usage



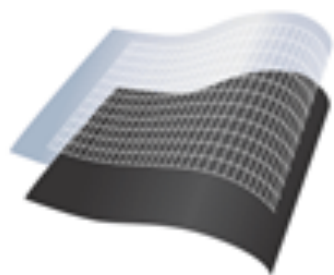
●Seamless
belts



●High
heat-
resistant
wire
coating
materials



●High
heat-
resistant
coating
materials



● The base material for flexible solar cells

● Heat-resistant paint

● Anti-rust paint

● Secondary battery

● electrode binder

● Coating material

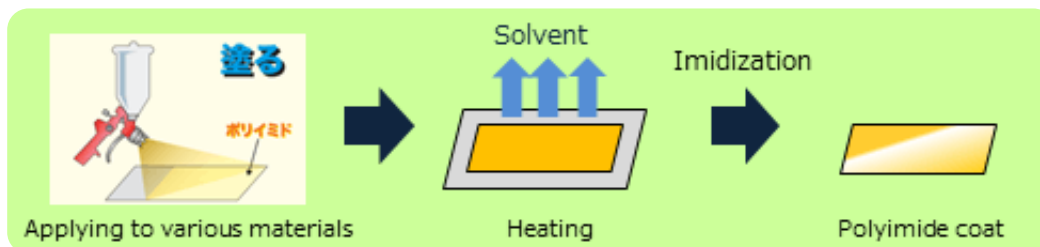
● Flexible device base

● Touch panel base

● TFT base

How to Use

Polyimide coating or film is created by applying varnish to various materials and then heating, which removes the solvent and completes the imidization reaction.

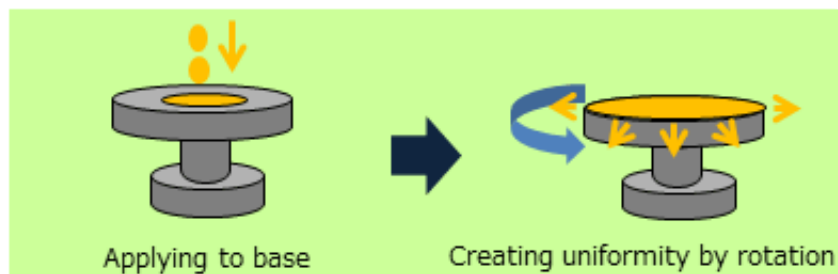


(1) Usage examples of polyimide coat

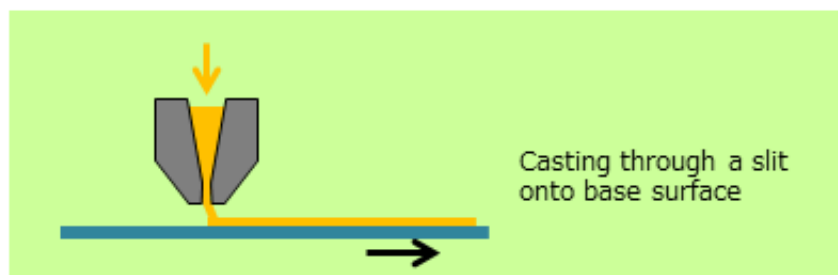
- Direct polyimide coating creates a polyimide film applying varnish to various materials and then heat curing.
Ex: Wire coating, coating of metal parts
- Polyimide coat obtained by applying to a metal plate, glass or other substrate, which, after heating, is released off and used as a polyimide film.
Ex: Seamless belt, Flexible device base
- Polyimide varnish is used as a mixture with other chemicals.
Ex: Additives for paste or paint, binder resin

(2) Coating method examples

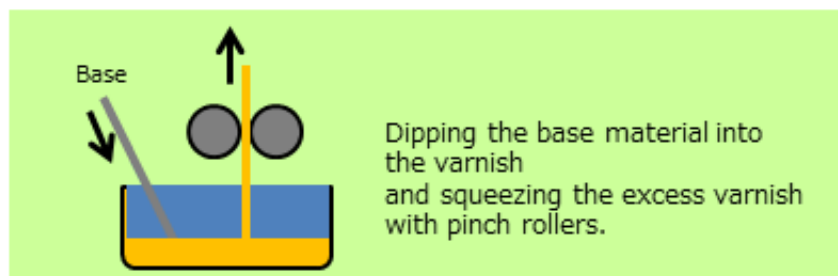
● Spin coating



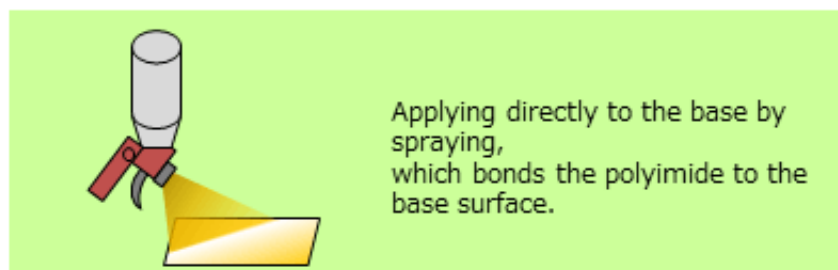
● Slit coating



● Dip coating



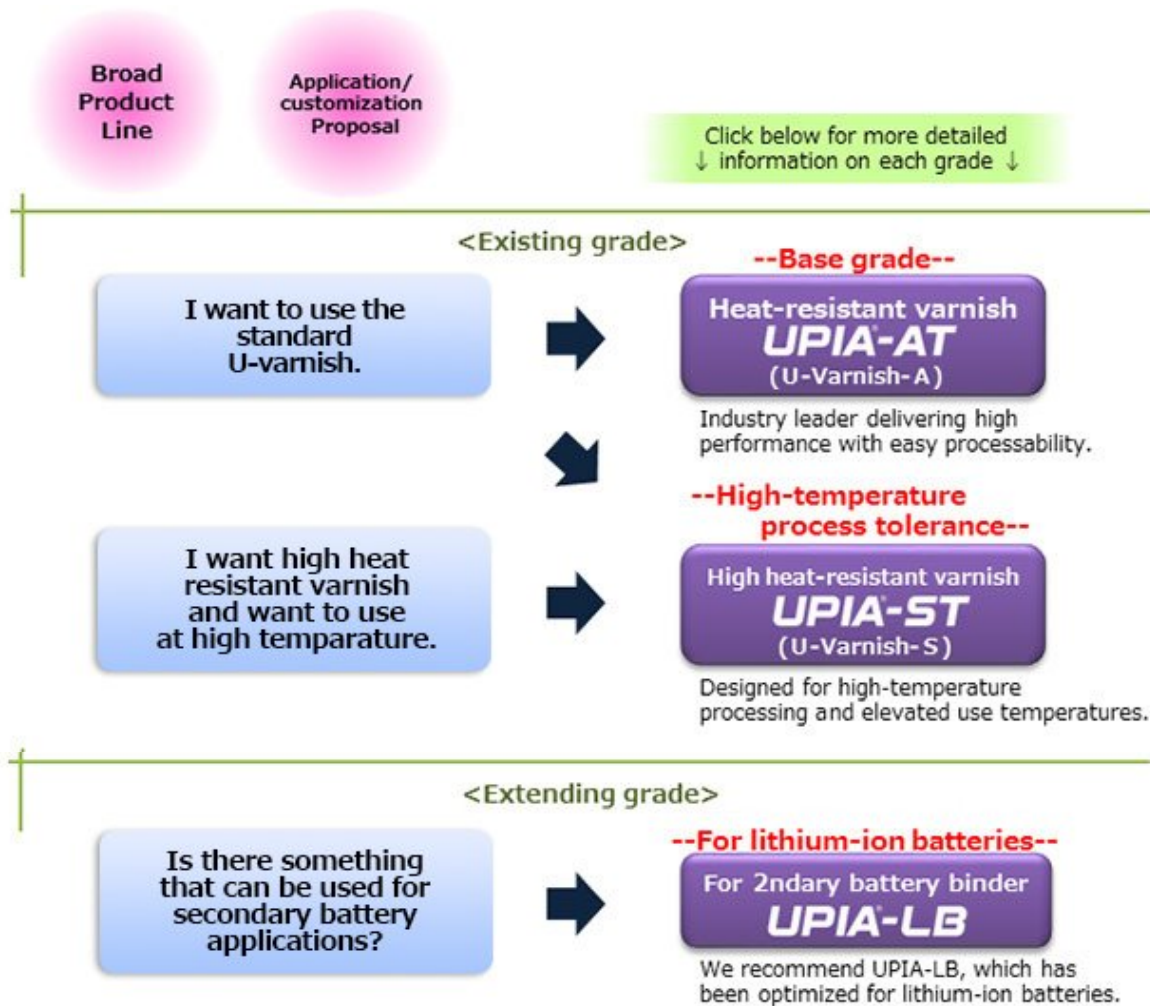
● Spray coating



Proposed

Application and grade

In order to satisfy our customers needs, we recommend the varnish grade which is optimized for the application and targeted end use characteristics. This is based on the many advantages of the standard grades of "UPIA®-AT (U-Varnish-A)"[Normal heat-resistant] and "UPIA®-ST (U-Varnish-S)"[High heat-resistant].



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Products Inquiry



Product Line

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