Since 1984 Electra has been a leader in the development of advanced speciality polymer based resists and coatings for the global electronics manufacturing industry. With an emphasis on innovation, R&D and customer support, we provide customers with world class materials to help them manufacture environmentally compliant products faster, cheaper and of higher quality.

Whatever their size or wherever their location, our customers share a common goal: to constantly improve their production processes, so that sophisticated designs are manufactured in the fastest, most reliable, most repeatable and least expensive manner.

At Electra, everyone is dedicated to helping our customers achieve this goal.

What sets us apart from other polymer resist and coating manufacturers is the quality of our innovation, R&D and technical support.

For many companies innovation is a word overplayed by their marketing departments. At Electra, innovation is the cornerstone of our approach to R&D, resulting in us being at the forefront of PCB and membrane switch material development for over 20 years.

One of the first companies to develop a two-component aqueous photoimageable soldermask, we were the first resist manufacturer to proactively work closely with machine manufacturers to optimise our products for spray application - a technology now widely established for the many benefits it offers in terms of coating uniformity, track-edge coverage, blind-via encapsulation and minimal soldermask deposition in holes.

As well as the continued improvement of traditional technologies, we are actively involved in the development of direct imaging materials and the employment of nano-technology. These enable our customers to reap the accuracy and cost benefits associated with digital imaging processes.

From inkjet to laser, our polymer chemists and process engineers are actively involved in projects targeted at both incremental and step-change improvements in materials technology for the electronics industry.

Today we provide major PCB and membrane switch manufactures worldwide with all the polymer resist products they require.

In addition, our technical capabilities have lead to our Electralux™ range of printable display inks becoming rapidly established as a leader in polymer resist technology for the manufacture of high reliability electroluminescent lamps.

However, it doesn’t stop there. When you become an Electra customer, you not only partner with a supplier of cutting edge products that will satisfy your current needs, but you start to build a relationship with a company that will continually develop these, as well as new products, to satisfy your future demands.

Plus, wherever you are located, anywhere in the world, as an Electra customer you can benefit from our global support and supply network, covering more than 40 countries.
We are acutely aware of the challenges facing electronics manufacturers. The pressures of ever-increasing technical advances and shorter time to market demand that they employ the best, most cost-effective technologies available.

It’s this deep understanding of our customers’ needs that has lead to Electra’s products being used by every manufacturing sector, the world over, from high end consumer electronics to sophisticated telecommunications, computing and aerospace applications.

At Electra, we are focused on the needs of customers, dedicated to providing them with perfect chemical and polymer solutions.

Overcoming the challenges
CARAPACE® EMP110
is our range of aqueous developing photoimageable soldermasks which have been used in high volume production of PCBs since 1987. EMP110 uses the latest in polymer technology to exceed the increasing demands of PCB processes whilst maintaining a wide process window. Selected by many of the world’s OEMs for its final properties, CARAPACE® EMP110 is used as a high performance solder resist on all types of printed circuits, particularly those requiring high resolution, resistance to electroless nickel-gold or immersion tin and other strict environmental test conditions. CARAPACE® EMP110 is halogen free and fully

MANTA™
is our range of flexible coverlays. EFP140 is a liquid photoimageable coverlay for use in the manufacture of flexible and flex-rigid PCBs. Multiple heat cycle resistance and compatibility with electroless nickel-gold make EFP140 ideal for high definition flex applications. EFV4 is a UV curing coverlay formulated for use as a high volume insulating coating over polyester flexible circuitry.

VIPRA®
is our range of UV-curable materials for use in high volume consumer electronics manufacture. Our UV Soldermasks provide fast cure speeds together with excellent adhesion and solder resistance on a range of copper heights. The UV etch resists offer fine-line print capability as well as superb robustness to both acid and alkali etchants.

ELECTRA D’OR® represents the very latest in conductor, resistor and capacitor paste technologies, allowing customers to precisely match their polymer thick film (PTF) needs with both substrate and application. For rigid and flexible PCBs or membrane switches, the ELECTRA D’OR® range delivers high definition, high consistency, superior adhesion and, ultimately, extremely high reliability.
Products that set the standard

Electra is able to provide all the speciality polymer resist and coating products for your manufacturing processes.

Our product range includes conventional and LDI high resolution photoimageable soldermasks in both rigid and flex formulations, advanced polymer thick film (PTF) materials, 100% solids hole-plug resists, heavy copper dielectric systems and stackable liquid photoimageable etch resists. We are also experts in the technologies associated with the processing of these products, including the application of soldermasks by spray technology.

Our consistent, unchanging aim is to provide a comprehensive and compatible range of technically advanced products so that customers have the options they need, all from a single supplier with technical expertise and a commitment to superior customer service.

**ELECTRALUX™**

is our complete range of printable electro-luminescent display inks for use in the manufacture of high reliability flexible electroluminescent (EL) lamps. Formulated for high brightness, long lamp life and reduced power consumption, ELECTRALUX™ is extensively used in a wide range of EL applications from automotive and aircraft lighting through to consumer electronics and mobile phones. The ELECTRALUX™ range is comprised of fully compatible silvers, dielectrics, carbons, coverlays and phosphor pastes as well as base materials that enable in-house mixing.

**PHOTRAK®**

is our new generation liquid photoimageable etch resist that offers a low cost, high quality alternative to dry film. PHOTRAK® is ideal for today’s high yield, low cost, fine line, multilayer PCBs. Applied by screen print, curtain coat, electrostatic spray or air spray, but best by roller coating, PHOTRAK® can be stacked resist-to-resist without the need for separation and will deliver sub 25µm resolution. With its anti-scruff/scratch surface and excellent copper adhesion, PHOTRAK® has proven to deliver excellent yields.

**ELECTRAMASK®**

is our range of speciality materials formulated to deliver solutions under the following categories:

- Temporary peelable masks suitable for use with multiple solder-cycles and lead-free processes.
- Via-hole plugging resists utilising novel 100% solids epoxy technology to eliminate solvent entrapment and shrinkage in high reliability applications.
- Heavy copper in-fill dielectric and soldermask system for automotive applications.

**SCRIBE™**

is our range of high definition, high contrast, durable notation or legend inks. Each offers excellent adhesion to base laminate, copper and soldermask, while remaining resistant to solvents and chemicals. Ink-Jet versions of SCRIBE™ give a strong colour contrast and offer excellent adhesion to both cured and uncured soldermask.
World class customer service

Electra provides world class, regional service to customers in over 40 countries through a network of distributors who provide warehousing and technical support from local sales offices. This is backed up by our own technical specialists who have many years experience in electronics manufacturing processes.

Therefore, as an Electra customer, you can depend on us to deliver a fast and reliable service, wherever you are located - in Europe, North or South America, Asia-Pacific or South Africa.

Our customers include many of the world’s most respected PCB and membrane switch manufacturers as well as their OEMs, including Siemens, Motorola, 3M, Unisys, Ford, 3 Com, Ericsson, Nokia, Kostal and Philips, to name but a few. Electra’s superior products and technical support help these companies to remain competitive in their market places.

The future will see Electra continue to develop products that allow customers to take maximum advantage of both existing and emerging technologies. These product developments will also encompass all environmental requirements, such as lead-free, RoHS and WEEE regulations.
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