



Probimer[®] 65

Solvent developable
high performance solder mask

HUNTSMAN

Probimer® 65

at a glance



Product and Process

Probimer® 65 A high performance, negative working, photosensitive solvent developable photoimageable solder mask

Application Flood screen print, curtain coating, and spray applications

Preclean Pumice brush, chemical preclean or scrubbing

Drying Wide drying window of up to 60 minutes without impact on small hole developing

Exposure Energy Required energy ≥ 500 mJ/cm², optimised for automatic exposure

Resolution High resolution capability allows reproduction of 50 μ m solder dams while offering excellent small hole developability

Development Developing is carried out in gamma-butyrolactone (GBL), ethylene-diglycol (EDG) or butyl-diglycol (BDG)

Final Thermal Cure 150°C for 60 minutes

Special Features

- Best Solder Mask – stability with thin layers
- Best Solder Mask – edge coverage
- Best Solder Mask – high mileage
- Best Solder Mask – dielectric strength
- Best Solder Mask – approvals in production
- Wide process latitude
- Outstanding chemical resistance
- High surface hardness
- Optimised for automatic exposure
- Outstanding properties for Second Image Transfer (SIT) process
- Halogen-free¹⁾ version available
- High performance plugging ink available

Benefits

- Ideal substrate for adhesion of conformal coating, surface mount adhesives, underfill and legend inks
- Fulfills the most stringent requirements for electrical corrosion resistance
- Outstanding moisture and insulation resistance
- Excellent resistance to immersion Sn, electroless nickel immersion gold and other metals as well as various organic surface protection finishes
- Ultrafiltration for reusage of solvent
- Conforms to IPC-SM-840C Class T&H, UL 94 V-O and Bellcore test standards
- Solder mask system with the most OEM approvals worldwide

¹⁾ according to JPCA standard

High resolution



High hardness



Ideally suited for immersion Sn





Probimer® 65 – No. 1 Solder Mask System in Europe

Excellent resistance to all known post solder mask processes, outstanding end properties, and the highest resolution make Probimer® 65 the No. 1 solder mask in Europe.

Probimer® 65, offers a wide range of solvent developable solder mask systems, while ideally conforming to present and future market requirements. Various application methods such as curtain coating, screen printing and spray allow high flexibility in production.



Probimer® 65 – Excellent Customer Support

We provide our worldwide customers with excellent support. In Europe alone, there are more than 20 technical experts on hand to immediately respond to customer requests.

Probimer® 65 – Cost Savings Potential

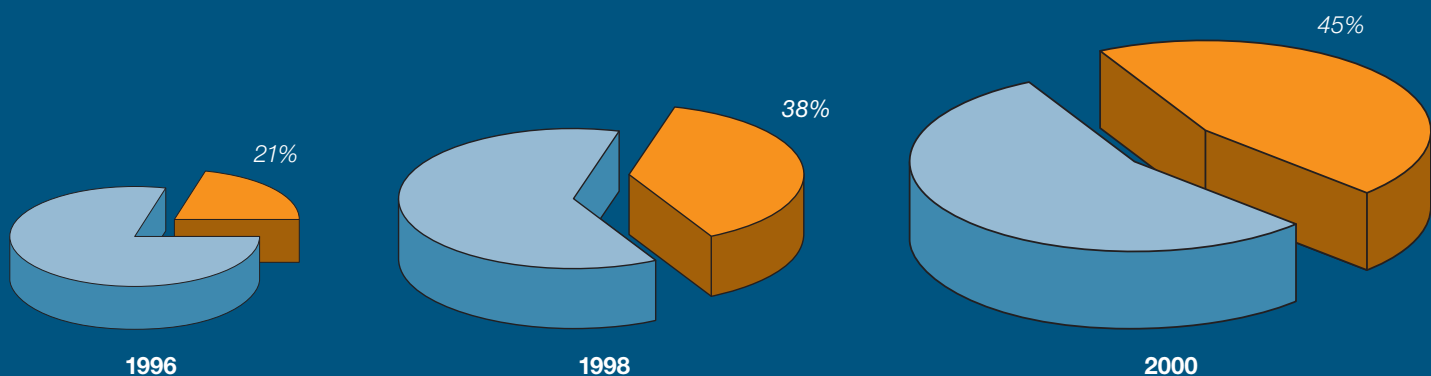
Probimer® 65 resolves structures down to 50µm at high yields. Specially designed equipment, like the advanced curtain coater, allows mass production even in the smallest space. Ultrafiltration from the developer's solvent protects the environment and leads to additional cost savings. A plugging ink system designed for the Probimer® 65 range can be coated in the same process.

Probimer® 65 – Most OEM Approvals Worldwide

Probimer® 65 has gained the highest market acceptance at customers and OEMs in Europe and in North America. It conforms to even the most demanding market requirements such as outstanding stability with thin coatings, high mileage and planarity, and high dielectric strength. Today Probimer® 65 is the solder mask with the most OEM approvals worldwide.

Our teams continuously improve today's product technology and anticipate future demands. Halogen-free solder masks, solder mask systems with outstanding resistance to immersion Sn, and solder masks suited for the Second Image Transfer (SIT) process are only some features covered by the Probimer® 65 range.

Probimer® 65: Highest Market Share in Europe



PWB Technology is your partner for all advanced polymer needs – worldwide:

Probimer®

Industry standard of high performance liquid photoimageable solder mask technology. Available as aqueous-alkaline (Probimer® 77) or solvent developable (Probimer® 65) systems. Probimer® is accepted worldwide as an ideal and versatile solder mask technology. Halogen-free versions and compatible plugging inks are also available.

Probimage®

The world's leading liquid etch resist technology for innerlayer production. It enables finest lines for nearly unlimited design capabilities. Probimage® offers optimal performance and high yield at low overall cost.

Optimer®

Liquid positive electro deposited resist technology ideally suited for High Density Imaging designs and via hole protection. Thin coating, ultra fine lines, landless design and 3-D structuring capability lead to significant savings in panel real-estate and cost.

Probelec™

Leading edge liquid epoxy dielectric resin system for High Density Interconnect (HDI) applications. Probelec™ is available for laservia and photovia methods. The same product can be applied by flood screen printing or roller coating. A new HDI process allows to laminate the copper foil directly onto the pre-cured Probelec™.

