NEWSLETTER

LPD Lab Services
TEL: +44 (0)1254 676 074

One-Stop Shop for **Industrial Process Problem Solving**, **Consulting** and **Routine Analysis**

Preferred Supplier to RAPRA

RAPRA LIMITED
Rubber And Plastics Research Association
Preferred Provider

LPD Lab Services Ltd has been a RAPRA Rubber and Plastics Research Association preferred provider since the middle of 2012 following recommendation of the company from a number of RAPRA members.

LPD Lab Services agreed to provide 1 man-hour of discussion and consultancy to RAPRA members free of charge. Time is used to confidentially discuss the problems and focus efforts and scope and generate a plan of work targeted at providing sensible solutions.

Polymers and rubbers are often used in combination with other materials like metals, ceramics and composites. This can lead to unforeseen problems associated with complex interactions between the chemicals and materials involved.

LPD has helped to solve many materials failure problems relating to paints, coatings, rubbers and plastics. The following is just a small sample of the issues that LPD has investigated:

- Embrittlement and leaching issues
- Degradation and polymer swelling
- Adhesive and cohesive failure
- Interfacial contamination
- Depolymerisation
- Paint delamination problems
- Wetting and mixing issues

RAPRA says of LPD; "We are extremely pleased to have LPD as a 'Preferred Service Provider', their response is always prompt and efficient and geared to giving the very best service to the client and RAPRA."

A New Arrival

Andrew Price joined LPD in the role of Applications Chemist last November in a customer focussed problem solving role. He has over 20 years of experience in the Electronics and Industrial Speciality Chemicals Markets having worked in the Central Research Laboratories of the Cookson Group before moving to the Cookson Electronics European Research Centre.

Further industrial experience was gained at the Laboratories of Warton Metals Limited. Andrew's knowledge is wide ranging having developed a number of innovative new technologies and products in the areas of adhesives and soldering and his experience will enhance our reverse engineering services by providing expertise ranging from de-formulation and benchmarking through to formulation development and manufacturing process improvement. In addition his experience in electronics materials research and development complements LPD Lab Services' customer problem solving capabilities in both the Electronics, PCB and Industrial areas.

Contamination, Isolation Identification and Elimination

LPD Lab Services offers a diverse range of contamination and stain characterisation services for chemicals, materials or products. Contamination can arise in many forms; it can be small or large particles, surface staining or even be buried within a material's or product's structure. Over many years LPD has developed structured analytical techniques to identify a variety of physical or chemical contamination.

Using a variety of chemical analysis techniques, a contaminant can be identified from its elemental or chemical signature. However, in some cases, physical and chemical imaging of the contaminant can offer a clearer direction for problem solving if the contaminant is a mixture of materials. The shape and structure of a particle combined with an assessment of its physical and chemical impact on the materials around it, can provide valuable insights into the contamination process. This information can also identify a specific point within a production process where contamination arose. LPD has a diverse range of techniques that can be brought to bear on any contamination problem e.g.

- XPS
- SEM
- FTIR
- Optical Microscopy
- SIMS

These techniques, combined with the efforts of our technically experienced staff, allows LPD to identify contaminants arising from a wide array of sources. LPD staff are often able to provide practical recommendations on how to contain or prevent re-occurrence.

Contact Us

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