

ELANTAS PDG, Inc.

Resin Selection Guide



**The Global Leader
in High Quality
Electrical Insulation
Products**

Your worldwide source for electrical insulating varnishes and resins.

Around the world, ELANTAS Electrical Insulation companies are respected as market leaders in the development and manufacturing of impregnating resins (varnishes), wire enamel, potting compounds and casting resins for a number of electrical, industrial, aerospace and civil applications.

No matter what your challenge, be assured that ELANTAS Electrical Insulation products will meet your most demanding needs.

The P.D. George Company, a pioneer in specialty polymer technologies since 1919, is now known as

ELANTAS PDG, Inc.

Today, we are the premier global supplier of specialty polymers for the electrical and electronic industries.

ELANTAS PDG, Inc. is a member of ALTANA's ELANTAS Electrical Insulation Division based in Wesel, Germany. With the support of ALTANA and by working with other ALTANA divisions, we offer a unique global approach to research, manufacturing and service that translates into more creative solutions, dependable supply and consistently high quality.

Manufacturing

ELANTAS PDG, Inc. is located on 18 acres in an industrial site of north St. Louis, MO.

This site accommodates the largest capacity for reacted synthetic resins and specialty blends in the electrical insulation industry. A team of chemists conducts basic research and product development in cooperation with our customers and field sales staff.

Our ISO 9001 and TS 16949 quality systems are the heart of our manufacturing processes.

Flexibility and rapid response manufacturing are hallmarks of our corporate commitment to enhance our position as the industry leader in cost effective product design, technical

support, customer service and on-time delivery.

Manufacturing personnel operate on a 24-hours a day, 7 days per week schedule to insure timely, complete and accurate product delivery to our world-wide distribution channel and customer base.

Technical Support Services

Our Applications Team maintains close liaison with our R&D Group and our customers. This communication link serves as the vehicle to ensure internal product and process improvements are customer driven and that our customers are aware of new developments in technology or applications.

In addition to the technical aspects of product selection and process, our Technical Services Team is responsible for integration and

consolidation of technologies throughout the Business Unit.

As we continue to develop and perfect environmentally benign, inherently clean and safe electrical grade polymers, our Technical Services Team allows our customers direct access to the best technology available around the world.

Regulatory Responsibility

ELANTAS PDG, Inc. works with our customers and Governmental Regulatory bodies to meet the most stringent requirements of federal, state and city regulations, resulting in the development, marketing and servicing of environmentally responsible products to our industry.



**ELANTAS PDG, Inc.'s Electrical Insulation Products....
the largest selection available for every possible application.**

Pedi

Pedigree

The leader in unsaturated polyester technology.

EpoxyLite®

The industry standard of epoxy resins for the motor repair market.

EPOX

Ste

Sterling

High quality encapsulants and adhesives.

Ripley Resin

Pioneering epoxy chemistry for the transformer market.

Ripl

Gua

Guardian Resin

Environmentally friendly epoxy emulsions.

RanVar

Innovative line of co-polymer impregnation systems.

RANV

VIKI

Viking Products

Premier supplier of modified oil resins for the transformer markets.

Isonel®

Industry standard in solvent-borne insulating resins.

Ison

Impregnating Resins

Composed of specialty polymers designed to enhance the properties of electrical and electronic devices when coated over magnet wire. The synthetic resins are based on the following chemistries – alkyd, saturated and unsaturated polyester, phenolic, epoxy, polyurethane and alloyed resins of the above. The product design platform is based on solvent or waterborne systems, emulsions and reactive diluents.

Encapsulating Resins

Used primarily to surround electrical and electronic components to give dielectric protection, as well as thermal shock resistance, moisture resistance, high voltage spike resistance and to create good thermal conductivity. Some of the polymers used in these applications are epoxy, unsaturated polyester, polyurethane, silicone resins and hybrids of the above. Formulated resins are available as filled or unfilled, either one-component or two-component.

Specialty Products

ELANTAS PDG, Inc. also manufactures a wide range of specialty resin systems and adhesives for automotive, civil, aerospace/ defense, architectural design and industrial uses.

Many other niche products are available including banding tapes, mica binders, tubing and sleeving coatings, poltrusion and laminating resins as well as conformal coatings.



Resin Selection Guide

Our products can be applied by one or more of the methods below. To learn more about these specific applications, please see the product line card insert.

Impregnation

- Dip & Bake (Emulsion Varnished)
- VPI (Vacuum Pressure Impregnation)
- Air Dry
- Trickle

Encapsulating

Potting

Casting

Wet Winding

Adhesives

Specialty Products

- Kits
- Overcoats

Many ELANTAS PDG, Inc. products are recognized as components of electrical insulation systems in accordance with UL 1446. ELANTAS PDG, Inc. is registered to ISO 9001:2000 and ISO/TS 16949:2002-Second Edition.

Proud Members of:

NEMA

National Electrical
Manufacturing Association

EASA

Electrical Apparatus
Service Association

ASTM

American Society for Testing
and Materials

EMCWA

Electrical Manufacturing &
Coil Winding Association

ICRA

International Compressor
Remanufacturers Association

TTA

The Transformer Association

The recommendations, test results and suggestions are offered here in as a guide in the use of these materials and are not a guarantee to their performance in as much as the company has no control over the use to which others put the product.



ELANTAS PDG, Inc.

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ELANTAS Electrical Insulation companies are strategically located throughout the world to meet the primary insulation, secondary insulation and electronic and engineering materials needs of our customers:

AMERICAS

ELANTAS PDG, Inc.
ELANTAS Isolantes, Eléctricos do Brasil

EUROPE

ELANTAS Beck
ELANTAS Camattini
ELANTAS Deatech
ELANTAS UK

ASIA

ELANTAS Beck India
ELANTAS Tongling
ELANTAS Zhuhai