

## ELANTAS PDG, Inc. Receives Prestigious ALTANA Innovation Award for the Introduction of ELAN-Film® HT-180 Flexible Insulation

St. Louis, MO – ELANTAS PDG, Inc. (EPDG) is proud to announce they have been awarded the 2016 ALTANA Innovation Award for the introduction of ELAN-Film® HT-180 Insulation, a flexible electrical insulation. The material is used in motors and generators to protect insulated copper from the steel core (slot liner) where phase-to-phase insulation is required.



Tom Murray, Director of R&D at ELANTAS PDG, Inc. (center) accepts the 2016 ALTANA Innovation Award on behalf of his colleagues. Included in the photo are members of ALTANA's Management Board Dr. Christoph Schlunken (left) and Dr. Christian Przybyla (right).

This prestigious annual award honors the most innovative idea each year within the ALTANA family of companies.

“ELAN-Film® HT-180 Insulation is a unique, new solid electrical insulating product that offers our customers significant advantages and cost saving opportunities,” said Marc Barmeier, EPDG Business Development Manager – Emerging Technologies. “Due to the low moisture absorption of ELAN-Film® HT-180 Insulation, the need for preheating components and the extra effort typically required in processing, drying, packaging, handling and

storage is eliminated.”

### An Involved Development Process

“The successful development and commercialization of ELAN-Film® HT-180 Insulation required the coordination of teams across multiple functions/companies within ALTANA,” said Susan W. Graham, EPDG President and CEO. “We are especially appreciative of our sister company ECKART for their part in the plant runs making the commercialization of this exciting new product possible.”

### A Unique New Product that Overcame Many Developmental Obstacles

Today, most flexible electrical insulating materials are laminate structures. ELAN-Film® HT-180 insulation is unique in that it combines a liquid wire enamel material applied to another substrate in a totally different solid format. ELAN-Film® HT-180 Insulation is a composite PET film coated on both sides with a 50-gauge layer of ELANTAS PDG, Inc. Tritherm® Polyamideimide (PAI).

The first challenge to develop ELAN-Film® HT-180 flexible insulation involved making significant modifications the PAI polymer. The molecular weight and physical properties needed to be conducive to making a good free-standing film. The use of PAI resins outside of wire enamels has been limited by their high cure temperature and lack of physical properties caused by the low molecular weight of the resin.

The second major obstacle was translating from the prototype films made in EPDG's testing labs to a production environment. Optimized formulations were tested to hone in on a final production version to maximize yield even with multiple start-stop runs.

Customer response has been very positive with several customer applications already commercialized and many others well along in the approval process.



**ALTANA  
Innovation  
Award**

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**About ELANTAS PDG:**

ELANTAS PDG, Inc. founded in 1919 and based in St. Louis, Missouri, is a premier global supplier of specialty resins for applications in the electrical and electronic industries and is a pioneer in the development of Primary and Secondary Insulation as well as Electronic & Engineering Material technologies. ELANTAS PDG has been at their current location in North St. Louis since 1934. In 1996, The P.D. George Company was acquired by ALTANA AG, a specialty chemicals company headquartered in Wesel, Germany, and became part of the ALTANA Electrical Insulation Division. In May 2007, the division was renamed to ELANTAS Electrical Insulation and the St. Louis site became known as ELANTAS PDG, Inc.

**About ELANTAS:**

ELANTAS Electrical Insulation produces insulating materials for the electrical and electronics industry. They are found in electric motors, household appliances, cars, generators, transformers, capacitors, wind mills, computers, lamps, circuit boards and sensors, and help to ensure that design engineers can construct ever-smaller and more powerful electronic devices, thus saving materials and energy. Owing to consistent research and development, continual development of insulating materials and processes, and the fact that ELANTAS has production facilities around the world, the company has established a leading international position for itself and is the world's leading manufacturer of wire enamels and impregnating resins. This makes the division the preferred supplier for the electrical insulation industry and the main supplier to large international customers.

The division, which is managed by a holding company headquartered in Wesel, Germany, has nine independent manufacturing companies in all major regions worldwide. In 2015, ELANTAS employed a total workforce of 977 people and achieved sales of €463 million.

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