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ELAN-Film[®] HT-180
Superior flexible electrical insulation
solutions for LV motors & generators

ELAN-Film® HT-180

The Advanced Flexible Electrical Insulation - raising performance to the next level

With the development of **ELAN-Film® HT-180**, ELANTAS introduces new possibilities in the field of flexible insulation material applications, based on its own patented advanced PAI (polyamideimide) layer technology.

Dependable over its entire temperature range

ELAN-Film® HT-180 is an innovative material ideally matched to the performance required whilst operating at temperature ranges up to 200 °C, ensuring that electrical machines have a long and reliable service life.

The preferred solution

The individual components of any electrical insulation system must be robust enough to stand up to the toughest conceivable conditions, both in service and during the manufacturing process. This applies in particular for motors and generators. Thus, when it comes to electrical insulation, ELANTAS applies the most demanding of standards to its entire process – from development to production and ultimately delivery; giving you a dependable solution that unites the recognized impregnation expertise of ELANTAS with its specialty resin technology and advanced application knowledge.

ELAN-Film® HT-180

- Expands the potential of flexible insulation compared with conventional laminate combinations
- Overall cost saving opportunities, including storage, handling and processing

The ideal solution for manufacturing and operation

Easy storage	Low moisture absorption eliminates the need for preheating components and the extra effort and care needed in processing, drying, packaging and handling
Reduced material wastage	No restriction on material orientation (MD to XMD) during slitting and cutting operations
Improved operational efficiency	Resistance to damage during product preparation reduces down-time and cleaning (e.g. no dusting or chalking during die cutting, slitting, creasing and folding)

Enhanced performance

Thermal	ELAN-Film® HT-180 stands up to constant operation at -20°C to +200 °C and transient temperatures of up to 250 °C without degradation
Electrical	Thanks to its excellent electrical properties, ELAN-Film® HT-180 is a superior alternative to conventional insulation for electrical machines
Mechanical	ELAN-Film® HT-180 is exceptionally flexible and tear-resistant, so that the material stands up to even the most demanding manufacturing and operating conditions
Chemical	ELAN-Film® HT-180 is highly resistant to moisture and chemical influences

Applications in low-voltage motors and generators

ELAN-Film® HT-180 insulation is designed for motors and generators to protect insulated copper from the steel core (slot liner) and where phase-to-phase insulation is required. **ELAN-Film® HT-180** can easily be preformed so it is excellent for use as a slot closure or in areas where formed insulation is essential.

ELAN-Film® HT-180 insulation is fully compatible with a wide range of impregnating and potting resins.

- A completely new flexible insulation material for low-voltage applications
- Advanced PAI layer technology on PET base material
- Reliable at constant temperatures from -20°C to +200 °C
- Excellent dielectric strength and mechanical stability
- UL-certified and compliant in various systems

ELAN-Film® HT-180 is the debut product solution in a new ELANTAS product family, which will revolutionise the market for **Flexible Electrical Insulation** by enabling new application possibilities.

