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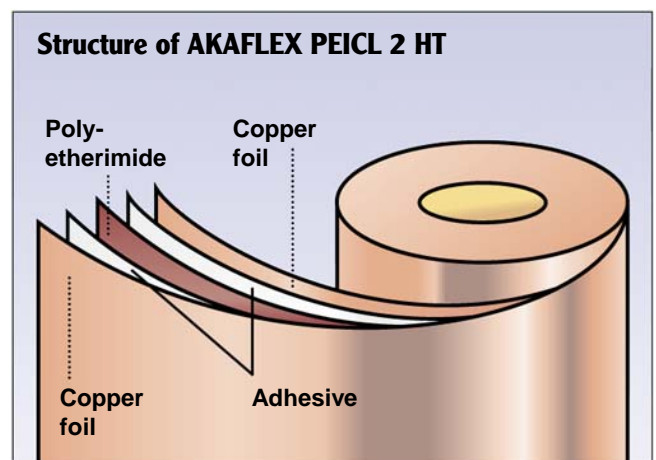
AKAFLEX® PEICL HT: Copper laminates on a polyetherimide-film backing for flexible printed circuits

The AKAFLEX® PEICL HT programme

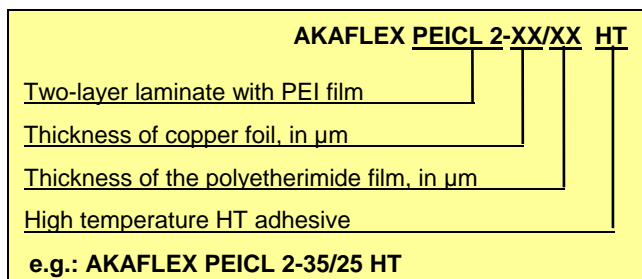
AKAFLEX PEICL HT is available from KREMPEL as

- ✓ two-layer laminates and
- ✓ three-layer laminates.

Polyetherimide film (PEI) is used as the backing material for the copper. This is laminated with electrolytic (ED) copper foil on one or both sides. A modified epoxy system characterised by very good temperature stability has been developed for the HT product family. In combination with polyimide film, the bonding system used here reaches a temperature index per UL 796 of 150 °C. AKAFLEX PEICL HT is **halogen-free**. The bonding system with polyimide film meets the requirements of **UL 94V-0 for flame retardance**. The PEI film is classified in **VTM-0**.



Designation for a two-layer laminate



Standard types of AKAFLEX® PEICL HT

Standard type designation	Thickness of copper foil	Thickness of polyetherimide film
Two-layer laminates		
PEICL 2-35/25 HT*	35 µm	25 µm
PEICL 2-35/50 HT	35 µm	50 µm

*Data being developed

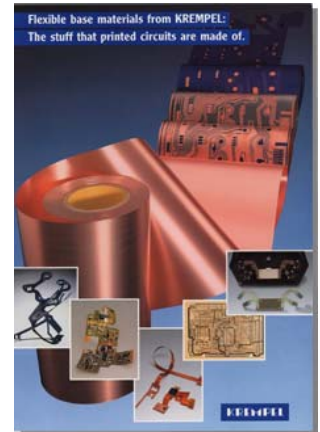
Other types on request

Processing AKAFLEX® PEICL HT

AKAFLEX PEICL HT can be processed »reel to reel« by screen-printing or photolithography and the standard etching and cleaning techniques. The technical advantages in manufacturing are assured in this way.

A comprehensive range of **coverlays** for **mechanical protection** of the etched circuits is available from KREMPEL. Diverse **bonding films** are also available for manufacturing **multilayer** circuits.

We use modified **epoxy-resin adhesives** only. This means that no special plasma treatment is necessary in the manufacture of flexible multilayer circuits.



Quality assurance

All AKAFLEX products are subject to the procedures of on-going quality control as defined in the Quality Assurance Handbook of August Krempel Soehne. This quality assurance system is certified as meeting the requirements of ISO 9001 and ISO/TS 16949. For AKAFLEX PEICL HT, testing is performed on the master reels according to the methods of IPC-TM 650.

Certified according to ISO 9001 and ISO/TS 16949

Availability of AKAFLEX® PEICL HT

- ✓ **Standard reel width:**
610 mm or 305 mm;
other widths on request
- ✓ **Standard reel length:**
150 m;
other lengths on request
- ✓ **Format:**
As requested by the customer
- ✓ **Packaging:**
Reels suspended in robust corrugated-cardboard cartons
- ✓ **Standard cores:**
Inside diameter 76 mm
- ✓ **Certificate:**
Test certificate according to EN 10 204 - 2.2

