
SynTherm® YT510 Crepe

SynTherm® YT510 crepe is based on SynTherm® YT510 a synthetic electro-insulation paper constructed of a calandered, aromatic polyamide fibrille flock composition.

Our SynTherm® YT510 Crepe is available in two versions:
F and SF with slightly different behaviour.

Attributes

The basic material SynTherm® YT510 is a class H (180 °C) insulating material. Temperatures below 200 °C only slightly influence its electrical properties. The good mechanical properties can be extrapolated to significantly higher temperatures. Due to its polymer-structure, SynTherm® YT510 is also suitable for temperatures up to -190 °C. It has a high short-term dielectric strength. SynTherm® YT510 is compatible with all classes of common resins, varnishes, adhesives as well as transformer liquids, lubricants, and cooling agents. Common solvents may lead to slightly reversible moisture expansion. SynTherm® YT510 has low flammability (UL 94V-0) and very high resistance to beta and gamma radiation.

Application

SynTherm® YT510 Crepe is used in wrapping applications where increased elongation and flexibility is required.

Standards

Insulating material class class H (180 °C)

The base material is UL listed (RTI mech.+electr. 210 °C)

Delivery forms

Paper thickness in µm: 80

SynTherm® YT510 Crepe is available in tapes:

- approx. 40 m length
- approx. 165 mm outer diameter on 76 mm core

SynTherm® Crepe is also available with base material uncalendered aramid paper SynTherm® YT511 + crepe tubes.

Base

Calandered, aromatic polyamide fibrille flock composition.

| Mechanical | Unit of measure | Type F - Base material | Type F - creped | Type SF - Base material | Type SF - creped |
|----------------------------------|-----------------|------------------------|-----------------|-------------------------|------------------|
| Total thickness | mm | 0.08 | 0.65 | 0.08 | 0.72 |
| Tensile strength longitudinal | N/10 mm | 65 | 49 | 65 | 47 |
| Elongation at break longitudinal | % | 9 | 70 | 9 | 80 |
| Dielectric strength | kV | 1.28 | 2.68 | 1.28 | 2.43 |

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