

P.I. (Polyesterimide) 180°C

Enamel		Polyesterimide
Insulation class		180°C
Wires	diameters	0,05 - 5,00 (copper)
	coverings	grade 1,2
	standards	IEC 317 - 8 / 1990

PI is based on a modified Polyesterimide resin developed for magnet wire use without the amide-imide topcoat. It is not recommended for use in oil-filled transformers.

PI has excellent electrical properties, windability, abrasion resistance, solvent resistance, and meets the heat shock requirements at 200°C.

Characteristics

- a. Thermal stability allows use at 180°C.
- b. Good windability.
- c. Good heat shock resistance.
- d. High thermoplastic flow temperatures.
- e. Good overload resistance.
- f. Extremely high dielectric strength, even when exposed to moisture.
- g. Tends to hydrolyze in presence of water at elevated temperatures and is, therefore, not recommended for totally enclosed systems.
- h. Susceptible to solvent crazing (will self-heal).

Typical Applications†

- Motors and dry type transformers and all coils requiring high temperature ratings.