

BASIC



colours & yarns for weaving

Cationic polyester

BASIC is a cationic polyester (a polyester yarn dyeable with cationic dyestuffs - also known as basic dyestuffs, traditionally used for acrylic).

The dyeability with cationic dyestuffs is achieved through a polymer modification and brings benefits both to production and to the end user.

From the production point of view, it allows to dye at lower temperatures than required by a normal polyester (around 100°C instead of 130°C) without using carriers (which adversely affect the colour fastness, especially on products stored for a relatively long time after dyeing or on products being thermo-fixed without pre-washing).

From the perspective of the end user, a higher washing, perspiration and sublimation fastness can be achieved through the use of cationic dyestuffs, that's because the bond between cationic fibre and cationic dyestuffs is chemical, therefore stronger than the physical one between traditional polyester fibre and traditional dyestuffs.

These particular properties enable significant performance improvements for 100% PES products, but not only that: they open up new application possibilities, e.g. for those products

that may be composed of blends of polyester and fibres not enduring dyeing at 130°C (e.g. wool, silk, acrylic, elastomeric fibres) or for products that require tone on tone colour effects, now obtained by mixing traditional PES yarns with cationic PES yarns and double dyeing them.

TABLE OF STANDARD POLYESTER

Density	(g/cm ³)	1,38
Softening point	(°C)	220-230
Melting point	(°C)	255-265
Moisture regain	%	0,4
Thermal conductivity	(cal/cm*s*°C)	2,10-4,00
Specific heat	(cal/g* °C)	0,32