

evolve **Printex Monthly News Bulletin November 2018** Contentment is natural wealth, luxury is artificial poverty.

The appearance of things changes according to the emotions; and thus we see magic and beauty in them, while the magic and beauty are really in ourselves.

The ^{Scarie}st moment is always just before you start.

When you see someťhing beautiful in someone, tell them. It may take a second to say, but for them it could last a life time.

It doesn't matter how slow you go, as long as you don't stop. ~ Confucius



CRESABLOCK PE

HO₂C

2 PES

Theory

CRESABLOCK

POLYESTER FIBRES

Definition

Polyester is a synthetic and thermoplastic polymer obtained from the polycondensation reaction of ethylene glycol and terephthalic acid. In the textile industry, it is usually converted into filament or staple fibers and employed alone or blended with others synthetic and/or natural fibers.



Properties

- □ Hydrophobic
- □ Close-packed structure
- □ Compact polymeric chains
- □ Absence of dyes sites



From 100°C

Properties

- □ Fibers starts swelling (effect increased with carriers)
- □ More amorphous regions in the polymer structure
- □ Mobility of polymeric chains
- Creation of dyes sites



Polycondensation reaction of polv(ethyleneterephthalate)

At 130°C

IRESA

Properties

- □ Fibers' swelling
- □ Much more amorphous regions in the polymer structure
- More mobility of polymeric chains
- Greater number of dyes sites





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Eliminate superficial dyes which have not been entrapped inside the PES structure during dveing, by destroving the excess of dve and consequently achieve good color fastness.



Without reduction clearing:

Low wash fastness

Low rubbing fastness

Low brightness of shade

Low sublimation fastness

Reduction clearing effectiveness depends on each dye type:

Azo dyes: Chemical reduction of the Azo bond.

Anthraquinone dyes: Solubilization of the dye to the alkali leuco form (colorless).



Reduction reaction of Azo dyes during reduction clearing process



Reduction reaction of Anthraquinone dyes during reduction clearing process

With reduction clearing:

- \triangleright Enhanced brightness of shade
- Enhanced wash fastness \triangleright
- Enhanced sublimation fastness \triangleright
- Enhanced rubbing fastness \triangleright



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Result



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Solution CRESABLOCK PES

Special Binder specially designed for blocking the migration of disperses dyes of the fabric to be printed.





Without CRESABLOCK PES







PROPERTIES:

- Does not affect the final **handle**.
- Very good domestic washing fastness (60°C).
- No fabric tacking depending on the printing layers applied.
- Respond to ECO PASSPORT requirements.
- Suitable for textile materials aiming to be certified under The STANDARD 100 by OEKO-TEX®.

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Application and Recommendations CRESABLOCK PES





Recommended application:

Sport clothes



Recommended screen mesh:

38 – 61 threads/cm ²

Recommended machines:

Automatic Screen Printing machines (Carousel). Oval Screen Printing machines.

Recommended application condition:

Print Off Contact.



Recommended application:

Step 1. Print CRESABLOCK PES (mesh 38) Step 2. Flash **(*)** Step 3. Print CRESABLOCK PES (mesh 38) Step 4. Flash Step 5. Print CRESABLANC (mesh 43) Step 6. Flash Step 7. Print CRESABLANC (mesh 43) Step 8. Flash



Recommended curing conditions:

2 - 3 minutes at 150°C



For elastic garments: CRESABLANC HE SUPER

Recommended application:

Print with CRESABLANC HE SUPER before CRESABLOCK PES.

(*) : For whom dispose of a cooling system, cooling can be done after flash.



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Contact MORE INFORMATION

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from Printex

Mr. Rui Mechado (Commercial Director – Roq International) & Mr. Vitor Simao (Sales Engineer –Roq International) had successful visit to Pakistan and during their stay they closed the deals of Roq Machines to a couple of Customers. Also they introduced the Installment Plan for the Roq Machines for the small to medium range customers to support them for their unit upgradation.

News



Mr. Ignasi Gomez (Sales Engineer – Cresa) visited Pakistan and he introduced the Digital Pigment Inks and also visited customers for Paint Industry w.r.t Pigment Dispersions for Paint.





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