

南亞 tairilin



新世紀環保纖維

Eco-friendly green Fibers



常壓可染聚酯纖維 ECODYE®

一般聚酯纖維原本分子間緊密結構需要在高溫高壓下，染料分子才能進入纖維內部達到上色效果，而常壓可染聚酯纖維(ECODYE®)經特殊改質技術，讓染料在95°C~100°C下就可以進入纖維內部達到相同之染色效果。

因常壓可染聚酯纖維(ECODYE®)可使染色溫度降至100°C，除了能減少熱能使用、降低地球暖化速率及避免資源枯竭外，也可減少昇降溫時間降低染色成本。同時因為染色溫度降低，故適合與蠶絲、羊毛、Rayon、Nylon及Lycra等纖維交織/混紡，減少高溫對纖維造成之傷害。另外常壓可染聚酯纖維(ECODYE®)與一般聚酯纖維交織時因為上色率差異，布面外觀可呈現深淺色效果(tone on tone)。



Normal Pressure Dyeable Polyester Fiber – ECODYE®

The inherent molecular structure of regular polyester fibers is very tight. Therefore, high temperature and high pressure are required for dye molecules to penetrate the fibers. Nan Ya Plastics Corporation utilizes special techniques to modify its Normal Pressure Dyeable Polyester Fiber ECODYE®, allowing dye molecules to penetrate the fibers at 95°C - 100°C and kept the same dyeing effect.

Since Normal Pressure Dyeable Polyester Fiber ECODYE® can reduce the temperature required for dyeing from 130°C to 100°C, it helps save heating energy, slow down global warming and prevent exhaustion of resources. Moreover, since the dyeing time is reduced, the cost of dyeing is reduced as a result. Additionally, the reduction in dyeing temperature enables ECODYE® to be blended/interwoven with other fibers that require a low dyeing temperature, such as silk, wool, rayon, nylon as well as Lycra-based elastic yarns. When ECODYE® is blended/interwoven with regular polyester fibers, the resultant fabrics tend to feature a beautiful tone-on-tone surface effect as a result of the difference in dyeing rate.

無重金屬聚酯纖維 ECOFIT®

一般聚酯纖維於合成時為有效增加聚合效率必須添加觸媒減少聚合時間，傳統多使用含銻的重金屬觸媒。含微量銻的織物對人體雖不致有傷害，但對環境仍有一定的衝擊。因此歐盟於法規中規定，織物中銻含量需低於260ppm才有資格取得“ECO標籤”。

南亞的ECOFIT®使用新型的非銻觸媒，故纖維中不含重金屬成分。其生產之聚酯纖維與一般聚酯纖維物性相當，並且克服一般非銻觸媒聚酯纖維色澤偏黃之缺點。可廣泛用於各類紡織品、寶特瓶及回收再利用。



Heavy Metal FREE Polyester Fiber – ECOFIT®

In the process of producing polyester, catalysts are often added to reduce the time required for polymerization and significantly increase the polymerization efficiency. The most common catalyst is a heavy metal called antimony. Though it doesn't pose any risk with exposure to the fabrics, it still makes some impact to environment. The European Union (EU) has also stipulated in its legislation that antimony (Sb)<260 ppm qualify for the application of "ECO labels".

ECOFIT® use new type Sb-free catalysts to ensure the polyester contain no heavy metal. ECOFIT® fibers have a property equivalent to regular polyester fibers; moreover, they do not have the unfavorable yellowish shades which regular Sb-free catalyst polyester fibers usually have. It can apply to textile, bottles and can be recycled and reprocessed.



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