Indian Standard IS 17261:2019 - Polyester Continuous Filament Fully Drawn Yarn (FDY)

Polyester Continuous Filament Fully Drawn Yarn (FDY) is a polyester yarn produced using a continuous filament spinning process. The process involves melting polyester chips and extruding them through a spinneret to form continuous filaments. These filaments are then stretched to align the polymer chains and enhance the yarn's strength. The resulting yarn is called Fully Drawn Yarn (FDY). Polyester FDY is widely used in various end products, such as textiles, carpets, and industrial fabrics, due to its exceptional strength, durability, and resistance to abrasion and chemicals.

IS 17261 outlines the requirements for polyester fully drawn yarn (FDY) used in various applications. It covers factors such as linear density, filament count, finish level, and ecological requirements. The standard also specifies methods for testing yarn characteristics, including tensile strength, elongation, and moisture content. Additionally, it provides details on the identification of FDY and the procedures for determining finish oil pick up and entanglements in filament yarn. The potential safety and occupational health issues associated with the analysis of polyester staple fibers include exposure to hazardous chemicals, the need for proper PPE, and careful handling of glassware to prevent accidents and injuries, are also mentioned.

In summary, the standard provide clarity in the context of polyester continuous filament fully drawn yarn, ensuring common understanding and interpretation. FDY (Fully Drawn Yarn) plays a crucial role in enhancing the quality and performance of various technical textiles. Their unique characteristics, such as high strength, uniformity, and resistance to external forces, make them ideal for creating superior offerings in the textile industry.

As per Gazette Notification issued by Deptt of Chemicals & Petrochemicals, Ministry of Chemicals and Fertilizers, Polyester Continuous Filament Fully Drawn Yarn (FDY) is brought under **Mandatory BIS Certification.**