



# Polyester Binder Yarns

Rev. No: 5526

PBYSULS 1670/ 2200DTEX

Fokabeks Kablo ve Sistemleri Ltd. Şti.

'where  
fiber optic happens'



## TECHNICAL DATASHEET

|                                |                                                                                                                                                                                                                                |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product</b>                 | Polyester Binder Yarn Super Ultra Low Shrinkage                                                                                                                                                                                |
| <b>Product PN</b>              | FX PBYSULS 1670/ 2200 DTEX                                                                                                                                                                                                     |
| <b>Material</b>                | Made from high tenacity, dustless continuous multifilament polyester yarns with soft & smooth surface. Natural color. Untwisted, no harmful to humans, nonconductive & nonwoven product. Super ultra low shrinkage & flat form |
| <b>Features &amp; Benefits</b> | Ideal to use as cross binder yarn during SZ stranding of buffer tubes in production of optical fiber cables to hold buffer tube bundles together without making stress & indentation on them.                                  |

### Typical Specs

| Properties (@T = 23°C & RH = 50%) | Unit | Test Standard | PBYSULS 1670 DTEX | PBYSULS 2200 DTEX |
|-----------------------------------|------|---------------|-------------------|-------------------|
| Linear Density (g/10000 mt)       | Dtex | ASTM D 1907   | 1580 - 1770       | 2130 - 2250       |
| Tensile Strength                  | N    | ASTM D 885    | ≥ 90              | ≥ 140             |
| Elongation at Break               | %    | ASTM D 885    | ≥ 20              | ≥ 20              |
| HAS @177°C, 10 minutes            | %    | 1             | ≤ 0,5             | ≤ 0,5             |
| HAS @177°C, 2 minutes             | %    | 1             | ≤ 0,3             | ≤ 0,3             |
| HAS @190°C, 15 minutes            | %    | 1             | ≤ 1,5             | ≤ 1,5             |

<sup>1</sup>Sample length 1 mt measured to ruler ±0.5 mm manually straightened under minimum tension; samples in loose coils annealed in the oven at temperature of 177°C/ 190°C in 2/10/15 minutes then re-measured with ruler after cooling down to room temperature 1 h. Percentage shrinkage is calculated based on differences in length and averaged results for 3 repeated samples.

### Packaging

Yarn is precision, flawless & consistent wound to strong & thick cylindrical cardboard tubes.

#### Standart Bobbin Dimensions \*

|         |            |
|---------|------------|
| OD (mm) | 210 to 225 |
| L (mm)  | 220 to 270 |
| T (mm)  | 200 to 250 |
| ID (mm) | 94 & 127   |

\* Custom design bobbin dimensions & slitted cardboard tubes available upon request. Maximum one splice is allowed per bobbin with minimum % 90 tensile strength of unspliced yarn.