



Our "swellable" solution against water penetration into your cables with unique swelling property of up to 50 times its own weight. Our most common grades are 1800 Deniers and 2500 Deniers and they can be placed either longitudinally, helically or used as binder yarns.

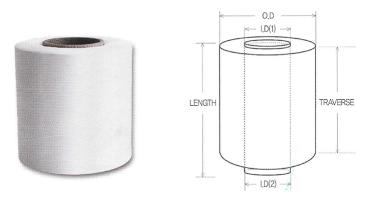
=> monthly capacity 4 000kg

## MATERIAL SAFETY DATA SHEET

## Water Swellable Yarns Characteristics

| ITEM                | UNIT          | TEST METHOD  | 1800D VALUE     | 2500D VALUE |
|---------------------|---------------|--------------|-----------------|-------------|
| Appearance          | Shall be Good | _            | Good            | Good        |
| Linear Density      | Deniers       | ASTM D 1059  | $1,800 \pm 300$ | 2,500 ± 300 |
| Tensile Load        | Kgf           | ASTM D 2256  | Min. 8.0        | Min. 10.0   |
| Elongation at break | %             | ASTM D 2256  | Min. 8.0        | Min. 8.0    |
| Shrinkage           | %             | 175'C*1 hour | Min. 10.0       | Min. 10.0   |
| Water Absorption    | %             | _            | Min. 2000       | Min. 2000   |





## Spool Dimensions (Cylindric Tube)

|                  | UNIT | SIZE          |
|------------------|------|---------------|
| O.D              | mm   | 230 ± 5.0     |
| I.D(1)           | mm   | $95 \pm 1.0$  |
| I.D(2)           | mm   | $107 \pm 1.0$ |
| TRAVERSE         | mm   | 196 ± 3.0     |
| LENGTH           | mm   | 219           |
| LENGTH PER SPOOL | km   | 25            |
| WEIGHT           | kg   | 5.5           |



## Spool Dimensions (Conical Tube)

|        | UNIT | SIZE         |
|--------|------|--------------|
| O.D    | mm   | $250 \pm 10$ |
| I.D(1) | mm   | 33 ± 10      |
| I.D(2) | mm   | $70 \pm 1.0$ |



|                  | UNIT | SIZE      |
|------------------|------|-----------|
| TRAVERSE         | mm   | 202 ± 3.0 |
| LENGTH           | mm   | 232       |
| LENGTH PER SPOOL | km   | 29.5      |
| WEIGHT           | kg   | 6.2~6.4   |