

# POLYART®

CONTINUOUS FILAMENT POLYESTER

*POLYART is a sewing thread produced from high-tenacity filament Polyester and developed for use in a wide range of products. As it is a filament thread, it is ideally suited to the most demanding stitching. It has a good resistance to abrasion, ultra-violet light and to the acids which are not very strong.*

*Thanks to the special lubricant applied to the thread during manufacturing, it reduces the amount of friction, prevents the thread from needle heat during sewing and provides an excellent sewing performance by allowing working at low tension in difficult sewing conditions.*

*For particular end uses, specially treated versions such as flame retardant and water repellent are also available.*

## BASIC USES:



*Decorative stitches*



*Leather jackets*



*Bag seams*



*Shoes*



*Blind stitching in fine fabrics*



*Automotive interiors*



*Raincoat*



*Bedding & Mattresses*



*Luggage & Brief Cases*



*Sport equipments*



# The main reasons to prefer POLYART

- Perfect and consistent loop forming properties that provide a smooth and uniform seam appearance
- Its superior sewing performance makes POLYART ideal for a wide range of applications; from blind stitching, hemming or serging to seat belt and shoe seams.
- Extensive colour range and very wide range of ticket sizes
- High efficiency and cost advantage brought by maximum sewing performance at high speed automatic machines, especially sewing of products such as bed, upholstery, quilt and pillow.
- High color fastness

| Technical Specifications |         |               |                       |                        |                                   |
|--------------------------|---------|---------------|-----------------------|------------------------|-----------------------------------|
| Ticket No. (Nm)          | Tex No. | Number of Ply | Average Strength (cN) | Elongation (Min-Max) % | Recommended needle size* (metric) |
| 4                        | 650     | 3             | 37000                 | 25-35                  | 250-300                           |
| 5                        | 550     | 3             | 30000                 | 24-34                  | 200-250                           |
| 6                        | 500     | 3             | 27500                 | 24-34                  | 160-200                           |
| 7                        | 400     | 3             | 23000                 | 26-36                  | 160-200                           |
| 8                        | 350     | 3             | 19500                 | 26-36                  | 160-200                           |
| 10                       | 270     | 3             | 17000                 | 27-37                  | 160-200                           |
| 11                       | 240     | 3             | 15500                 | 24-34                  | 140-160                           |
| 13                       | 210     | 3             | 12000                 | 24-34                  | 140-160                           |
| 15                       | 150     | 3             | 10000                 | 25-35                  | 140-160                           |
| 20                       | 135     | 3             | 8800                  | 24-34                  | 140-160                           |
| 25                       | 105     | 3             | 6300                  | 18-28                  | 120-140                           |
| 30                       | 80      | 3             | 5400                  | 17-27                  | 120-140                           |
| 40                       | 70      | 3             | 4600                  | 17-27                  | 100-120                           |
| 50                       | 50      | 2             | 3650                  | 14-24                  | 90-110                            |
| 60                       | 50      | 3             | 3400                  | 16-26                  | 90-110                            |
| 60                       | 40      | 3             | 2900                  | 16-26                  | 90-110                            |
| 70                       | 40      | 3             | 2900                  | 16-26                  | 90-110                            |
| 80                       | 35      | 3             | 2400                  | 14-24                  | 90-110                            |
| 100                      | 27      | 2             | 1750                  | 15-25                  | 80-100                            |
| 120                      | 24      | 3             | 1550                  | 15-25                  | 75-90                             |
| 150                      | 21      | 2             | 1350                  | 14-24                  | 65-75                             |
| 200                      | 14      | 2             | 1000                  | 14-24                  | 65-75                             |
| 240                      | 10      | 2             | 725                   | 10-20                  | 65-75                             |
| 300                      | 9       | 1             | 725                   | 10-20                  | 65-75                             |
| 360                      | 8       | 1             | 450                   | 12-22                  | 55-70                             |
| 400                      | 5       | 1             | 330                   | 13-23                  | 55-70                             |

\* Needle size recommendations are a guide only and ultimately depend on the sewing application.

## Fastness Properties :

|                |   |                        |         |
|----------------|---|------------------------|---------|
| Wash fastness  | : | ISO 105-C10 :2006 C(3) | Grade 4 |
| Water fastness | : | ISO 105-E01 :2013      | Grade 4 |
| Rub fastness   | : | ISO 105-X12 :2016      | Grade 4 |

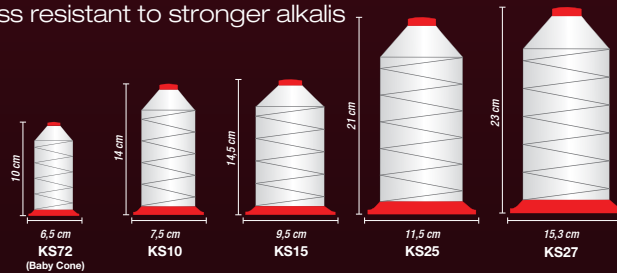
## Thermal Properties :

Melting point 250 - 260°C  
Shrinkage less than 2% at 150°C

## Chemical Properties :

**Acids:** Good resistance to weak acids  
**Alkalis:** Unaffected by weak alkalis but less resistant to stronger alkalis  
**Organic Solvents:** Generally unaffected  
**Bleaching:** Unaffected

Thread Package (Make-up)



As the conditions and applications in the end-use of thread vary considerably, the user should carry out preliminary testing to ensure that the thread is suitable for the intended use. Özen İplik cannot be held responsible for the misuse of any of the above products. All information contained in this sheet should be taken only as indicative. Please ensure that you are using the most recent publication.