

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	Elongation (Min-Max) %	Recommended needle size* (metric)
			(cN)		
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

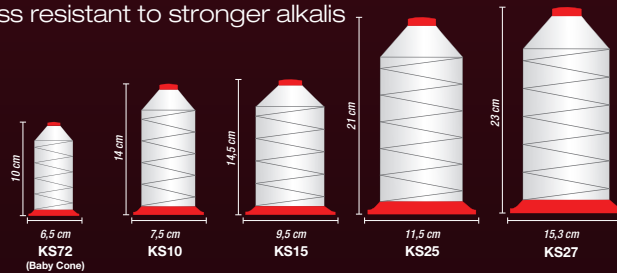
Thermal Properties :

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.