

**LIBERTY PARKGATE® POLY COTTON GLACE THREAD**

This multi-purpose sewing thread made of a high tenacity polyester core with a cotton cover combines high tenacity seam strength with a higher resistance to severe abrasion. The Satin Glace finish includes polishing with an added special process developed to ensure the thread will not open up during sewing. This makes it the ideal thread for tough sewing operations resulting in strong tight seams on heavy fabrics, leather and multiple layer sewing. The cotton cover, which swells to fill needle holes in wet weather, makes **LIBERTY PARKGATE** the best thread for outdoor applications. **LIBERTY PARKGATE** is produced in a wide range of thread sizes and is an environmentally friendly product, compliant to STANDARD 100 by OEKO-TEX®.


**FIELDS OF APPLICATION**

- Shoe, luggage, bags and leather products
- Upholstery
- Heavy fabrics, tents and other outdoor equipment
- Automotive
- Geo & technical applications
- Protective clothing
- Awnings
- Sporting goods
- Medical and orthopedic devices
- Flags
- Inflatable castle

## LIBERTY GUIDELINES

TICKET NO.	TEX NO.	AVERAGE STRENGTH (NEWTON)	ELONGATION % MIN-MAX	SPOOLS PER PACKAGING
<b>75</b>	40	19,2	16 - 24	10, 60 or 90
<b>50</b>	60	32,5	16 - 24	10, 60 or 90
<b>36</b>	80	40,1	16 - 24	10, 60 or 90
<b>25</b>	105	63,5	16 - 24	10, 60 or 90
<b>20</b>	150	78,0	16 - 24	10, 60 or 90
<b>12</b>	210	106,0	21 - 30	10, 60 or 90
<b>8</b>	350	173,0	21 - 30	10 or 40
<b>6</b>	450	221,0	21 - 30	10 or 40

If this information sheet does not include the item that matches your exact requirements please contact us.

## THERMAL PROPERTIES

- Polyester melts at 250 – 260°C, softens at 220 – 240°C
- Cotton discolours after prolonged exposure to high temperatures
- Thread shrinkage 240°C, ≤ 0,5%

## CHEMICAL PROPERTIES

- Mineral acids:** *Polyester:* Resistant to most mineral acids. *Cotton:* disintegrates in hot dilute and cold concentrated acids.
- Alkalis:** *Polyester:* Essentially unaffected by weak alkalis, but less resistant to stronger alkalis, especially at higher temperatures. *Cotton:* Swells in caustic, no appreciable strength loss.
- Organic solvents:** *Polyester:* Generally unaffected, but soluble in some phenolic compounds. *Cotton:* degraded by some solvents.
- Bleaching:** *Polyester:* Unaffected. *Cotton:* Bleached by hypochlorite and peroxides.
- Insects/Microorganisms (Mildew, rot):** *Polyester:* Unaffected. *Cotton:* Degrades but can be treated with special finishes
- Laundrying/dry cleaning:** Unaffected
- Moisture regain:** *Polyester:* 0,4%, *Cotton:* 8%

## LIBERTY QUALITY

The selection of our raw materials is the basis for the quality of all our products. By developing partnerships with our suppliers we are able to guarantee superior materials. Our manufacturing processes are of the highest standards and constantly governed by benchmarks. We aim at achieving the highest levels of performance in order to meet the needs of our customers.



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