

# World of Coats *helios p*

COATS  
*helios p*



100%  
POLYTETRA-  
FLUORETHYLENE

Product Information



Coats *helios p* is a high performance sewing thread, made from 100% polytetrafluoroethylene (PTFE), offering excellent chemical, heat and UV-resistance. Coats *helios p* is suitable for use in the production of outdoor goods like awnings, boat covers, etc. which are exposed to the harsh environment (ultraviolet rays, rain, salt water etc.). Coats *helios p*'s unique properties also make it an excellent solution for demanding filtration applications.

Coats *helios p* has been designed with strength in mind. It is the strongest PTFE sewing thread made to date meaning that finer ticket sizes can be used to reduce overall cost.

#### Main Uses:

- Boat covers
- Sunshades and canopies
- Outdoor goods
- Awnings and sails
- Garden furniture
- Demanding filtration products



#### Features and Benefits:

- Totally inert against chemical attack (Guaranteed)
- Totally resistant to degradation by UV (Guaranteed)
- High tenacity
- Excellent sewing performance

## World of Coats

- Coats is the world's leading industrial thread business with a 200 year history of pioneering innovation.
- Providing complementary and value added products and services to the apparel and footwear industries.
- Applying new techniques to manufacture and supply engineered threads and yarns to a wide range of speciality segments.
- With manufacturing plants in over 70 locations and sales and distribution in many more, Coats is uniquely placed to serve your thread needs anywhere in the world.
- Our range of value adding services and tools is being expanded to help customers adapt and meet the challenges of our industry today. For example, the award winning 'Coats Colour Express' sampling service enables a fast and accurate global thread sampling capability and is backed by Coats' well known advanced colour management systems.

#### One colour range. One specification. Worldwide.

Coats operates to a global specification for Coats *helios p* with quality audited by a centrally located team.

[www.coatsindustrial.com](http://www.coatsindustrial.com)



**Product Guidelines:**

Tex No.	Ticket No. (Nm)	Ply	Average Strength		Elongation % Min - Max	Recommended Needle Size*	
			cN	Grams		Singer	Metric
135	20	2	4,300	4,385	6 - 10	18 - 21	110 - 130
135	20	3	4,300	4,385	6 - 10	18 - 21	110 - 130
210	13	2	6,860	6,995	6 - 10	21 - 23	130 - 160
210	13	3	6,860	6,995	6 - 10	21 - 23	130 - 160
300	10	3	7,840	7,994	6 - 10	23 - 25	160 - 200
300	10	6	7,840	7,994	6 - 10	23 - 25	160 - 200

\* Needle size recommendations are a guide only and ultimately depend on the sewing application. Since conditions and applications vary considerably in the use of thread, the thread user should assure herself or himself by preliminarily testing that the thread is suitable for the end use intended. Technical information listed above is based on current averages and should be taken only as indicative.



**Physical and chemical properties of 100% polytetrafluorethylene:**

**Thermal Properties:**

- Coats *helios p* has excellent resistance to acids, alkalis, oxidizing agents and solvents. It is also characterized by good resistance to heat and hydrolysis
- Maximum permanent heat resistance 260°C

**Chemical Properties:**

- Acids: High resistance to acids
- Alkalis: High resistance to alkalis
- Organic solvents: Unaffected
- Microorganisms (mildew, rot): Unaffected
- Moisture regain: 0%
- Sunlight (degradation): Unaffected

