

World of Coats *gramax*

COATS
gramax



TEXTURED
POLYESTER

Product Information



Coats *gramax* is a continuous filament textured polyester thread. The textured filaments give the thread a soft feel and make it ideal for use on overlocking and cover seaming machine loopers to provide softness and comfort especially in "next to the skin" seams. It gives high extensibility and seam strength resulting in good seam security and low shrinkage characteristics, which ensures no seam distortion after washing.

Main Uses:

- Underwear
- Leisurewear
- Babywear
- Swimwear
- Knitwear
- Household textiles



Features and Benefits:

- Coats *gramax* provides exceptional seam cover and softness resulting in neat, comfortable seams
- High extensibility and seam strength result in good seam security
- The low shrinkage characteristic ensures no seam distortion after washing
- Coats *gramax* offers a high degree of colour fastness providing dependable performance even after the most demanding of wash processes
- Certified to Öko-Tex Standard 100, class 1, the most stringent class covering babywear

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 *gramax* with quality audited by a centrally located team.

www.coatsindustrial.com



Product Guidelines:

Global Offer Tex No.	Ticket No. (Nm)	Ply	Average Strength		Elongation % Min - Max	Recommended Needle Size*	
			cN	Grams		Singer	Metric
18	160	1	618	630	22 - 30	10 - 14	70 - 90
35	80	2	1,273	1,298	22 - 30	14 - 18	90 - 110

* 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.



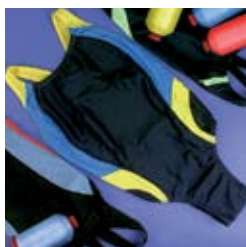
Physical and chemical properties of textured polyester:

Thermal Properties:

- Melts at 250 - 260°C, softens at 220 - 240°C

Chemical Properties:

- Mineral acids: Resistant to most mineral acids
- Alkalis: Essentially unaffected by weak alkalis, but less resistant to stronger alkalis, especially at higher temperatures
- Organic solvents: Generally unaffected, but soluble in some phenolic compounds
- Bleaching: Unaffected
- Insects / microorganisms (mildew, rot): Unaffected
- Laundering / dry cleaning: Unaffected
- Moisture regain: 0.4%



Coats gramax fastness properties:

- | | | |
|-----------------------------|-------------------------|---------|
| • Washing at 60°C | (ISO 105 C10:2006 C(3)) | Grade 4 |
| • Water Fastness | (ISO 105 E01:2010) | Grade 4 |
| • Rub Fastness | (ISO 105 X12:2001) | Grade 4 |
| • Hypochlorite Fastness | (ISO 105 N01:1993) | Grade 4 |
| • Dry Cleaning Fastness | (ISO 105 D01:2010) | Grade 4 |
| • Perspiration Fastness | (ISO 105 E04:2009) | Grade 4 |
| • Artificial Light Fastness | (ISO 105 B02:1994) | Grade 4 |

These fastness grades represent minimum performance levels and, in practice, the majority of shades will exceed these levels.

