



Princess

The experts choice for high extension overedge stitching seams

In counts 80 | 120 | 160



These 100 % polyamide threads are ideal for the special application of garment dyeing of underwear, ladies' socks and ladies' trousers as well as for the use in extremely soft overedge and overlock seams. The ideal expansion properties guarantee extremely stretchable seams.

www.guetermann.com

Gütermann

Princess 80 | 120 | 160

100 % polyamide, continuous filament, smooth/textured

	Princess 80	Princess 120	Princess 160
Applications	Special thread for "garment dyeing" of lingerie, ladies stockings, tights, etc., made from polyamide. Created for a more voluminous covering of seam. A particularly soft textured sewing thread in microfibres for overedging (finishing edges, high extension closing seams) and seam covering.		
Advantages	Excellent sewing properties, also suitable as needle thread. Textured microfibres produce a high degree of softness. Ideal properties for high extension seams. Bulked character ensures excellent covering of the seam.	Excellent sewing performance in overedging, seam covering, double chainstitch and lockstitch operations. Ideal extension properties produce high extension seams. Particularly suitable for sewing elastic bands and similar tasks. Excellent sewing performance even with very fine needles, such as NM 60.	Excellent sewing properties, also suitable as needle thread. Textured microfibres produce a high degree of softness. Ideal extension properties for high extension seams. Bulked character ensures excellent cover.
	Ideal expansion properties guarantee extremely stretchable seams.		
Make-up			
Size	5.000 m	5.000 m	5.000 m, 10.000 m
Shade range	Piuma/Princess shade card	Piuma/Princess shade card	Piuma/Princess shade card
Needle size	NM 70 – 90 / 10 – 14	NM 60 – 80 / 8 – 12	NM 65 – 70 / 9 – 10
Technology			
Count	No./Tkt. 80 – dtex 380(1) – tex 38	No./Tkt. 120 – dtex 250(3) – tex 25	No./Tkt. 160 – dtex 180(1) – tex 18
Breaking strength	> 1.450 cN	> 1.240 cN	> 690 cN
Elongation	> 26 %	> 18 %	> 25 %
Boiling shrinkage (30 min.)	< 2 %	< 2 %	< 2 %
Thermal shrinkage (160 °C/30 min.)	< 1 %	< 2 %	< 1 %
Fastnesses			
Wash fastness	in accordance with ISO 105 C01 – grade 2 and better		
Water fastness	in accordance with ISO 105 E01 – grade 2 and better		
Rub fastness	in accordance with ISO 105 X12 – grade 4 and better		
Hypochlorite fastness	in accordance with ISO 105 N01 – grade 2 and better		
Dry cleaning fastness	in accordance with ISO 105 D01 – grade 2 and better		
Perspiration fastness	in accordance with ISO 105 E04 – grade 2 and better		
Light fastness	in accordance with ISO 105 B02 – grade 2 – 3 and better		
Care instructions	    		
	www.guetermann.com Gütermann		