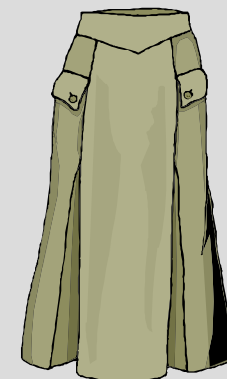


Mara 220**100 % Polyester - with graspy surface****Applications**

Special thread for high quality overlock seams and under and looper thread for finest fabrics on lockstitch and chainstitch

**Advantages**

Very fine sewing thread for:
 Very high under thread running length
 No stitching marks, important for double chainstitch
 Graspy surface
 Best evenness in the thread diameter and no spinning faults are result for a very regular seam
 Nearly no fibre fly by sewing and therefore less cost for machinery maintenance is necessary

**Make-up**

5.000 m, 10.000 m, 22.000 m

Shade range

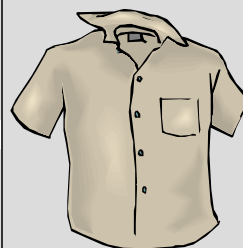
Shade card Gütermann Mara/A 2003

Needle size

Nm 60 to NM 80

Technology

Count No./Tkt. 220 - dtex 135(1)
 Strength > 400 cN
 Extension at break > 12 %
 Boiling shrinkage below 1 %
 Thermal shrinkage below 1,5 %

**Fastness**

Fastness to water in accordance with DIN 54006 = grade 4 and better
 Fastness to perspiration in accordance with DIN 54020 = grade 4 and better
 Fastness to rubbing in accordance with DIN 54021 = grade 4 and better
 Fastness to organic solvents in accordance with DIN 54023 = grade 4 and better

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