



Garnfabrik  
**Embroidery thread Specification Sheet**  
 to DIN and Marks & Spencer Standards

August 2002

Type of thread	<b>CLASSIC No. 40</b>
Article Description	Embroidery Rayon
Composition	100% viscose filament
Harmonised Tariff Number	540120100
Count	135 dtex x 2 120 den x 2
Make Up Available	1000 m spool 5000 m cone





**Fastness Rating – Scale 1 (worst) – 5 (best)**

Fastness to washing at 95°C	DIN 54011 / M & S C4A	4-5
Fastness to water (damp for 4hrs at 37°C)	DIN 54006 / M & S C6	4-5
Fastness to rubbing dry (10 rubs on dry white Fabric)	DIN 54021 / M & S C 8	4
Fastness to rubbing wet (10 rubs on wet white Fabric)	DIN 54021 / M & S C 8	3-4
Fastness to dry cleaning	DIN 54024	4-5

**Fastness Rating - Scale 1 (worst) – 8 (best)**

Fastness to light (100hrs xenon light)	DIN EN ISO 105-B02	6-7 Due to different dye stuffs not applicable to all colors.
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**Mechanical-Technological Values**

Tensile Strength cN (force until thread breaks, in CentiNewton)	DIN 53834	600
Elongation (% of stretch extension with weight tension until breaks)	DIN 53834	18
Shrinkage (% shrinkage at boiling)	DIN 53866 T2	1-2 %
Recommendations for care	   	
Color Card No.	428	

All Madeira's threads meet or exceed Marks & Spencer Standards.



dtex = decitex = weight in grammes of 10,000m of yarn  
 den = denier = weight in grammes of 9,000m of yarn  
 1 CentiNewton = slightly more than 1 gram  
 dtex x 2 = two plys of yarn  
 den x 2 = two plys of yarn  
 1 denier = 1.1111 decitex