

MADEIRA

Technical Datasheet

10.09.2019

POLYNEON FR

Article Description	Flame retardant Machine Embroidery Thread
Composition	100% polyester filament
Count	135 dtex x 2 / 120 den x 2
Make Up Available	2500m cone
Recommended needle size	60/8 – 75/11

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

Fastness to washing at 95°C Not applicable to all colors! Depends on the dyestuffs used	DIN EN ISO 105-C04/M & S C4A	4
Fastness to washing at 60°C	DIN EN ISO 105-C03/M & S C4A	4-5
Fastness to water (damp for 4hrs at 37°C)	DIN EN ISO 105-E01/M & S C6	4-5
Fastness to rubbing dry (10 rubs on dry white Fabric)	DIN EN ISO 105-X12/M & S C8	4
Fastness to rubbing wet (10 rubs on wet white Fabric)	DIN EN ISO 105-X12/M & S C8	3-4
Fastness to dry cleaning	DIN EN ISO 105-D01	4-5
Fastness to bleaching with Hypochlorite	DIN EN ISO 105-N01	4-5
Determination of the colourfastness of articles for common use – Part 1: Test with artificial saliva DIN 53160-1		4-5
Determination of the colourfastness of articles for common use – Part 2: Test with artificial sweat DIN 53160-2		4-5

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

Fastness to light (100hrs xenon light)	DIN EN ISO 105-B02	6-7
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Due to different dye stuffs not applicable to all colors. We will be pleased to name the colors , which have a high fastness to light according to the automotive standard.

Mechanical – Technological Values

Tensile Strength cN (force until thread breaks, in Centinewton)	DIN EN ISO 2062	ca.900cN
Elongation (% of stretch extension with weight tension until breaks)		ca.40-45%
Shrinkage (shrinkage at boiling water)	DIN 53866 T2	1-2%
Melting point		>240°C

Polyneon FR is the result of a special manufacturing process and can be used on all materials that need to comply with DIN 4102 B1,NF P92 503.4.5, BS 5867, UNI 9177, NFPA701, IMO FTPC part 2. Due to the flame-retardant feature of this thread, colors might slightly differ from those displayed in the shade card.

Recommendations for care



△ max. 20g/l active chlorine- max. 30°C - max. 30 min

Color Card No.

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Oeko-Tex



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