



What is Q-NOVA®?

Concern for the environment, recycling, in a lifestyle green, zero emissions is one of the most topical issues and felt by companies in the supply chain as well as final consumers. For this Fulgar has developed a highly eco-friendly fiber, which aims to achieve a reduction of CO2 emissions, reduced water consumption and the use of energy from renewable sources. Q-Nova® is a fiber obtained exclusively from environmentally friendly raw materials and responds to specific traceability requirements.

Technical specifications*

The following data is purely indicative and is intended to provide an overview of the main mechanical properties of the yarn. The measurements were conducted on 44/40 dtex stretch (textured yarn).

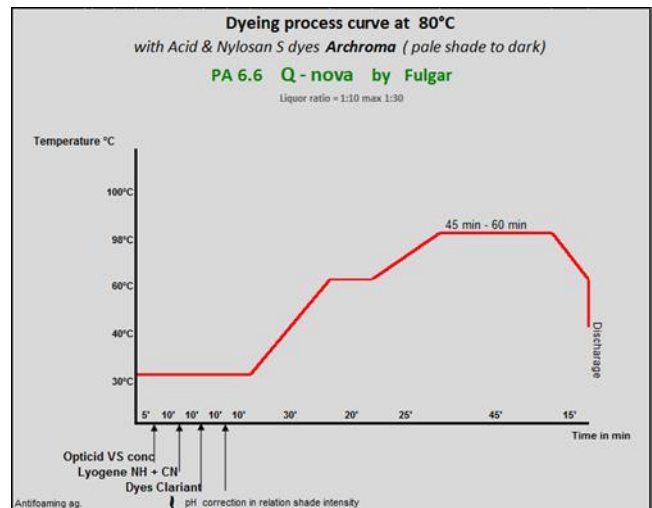
Characteristic	Method	Value
Linear density (dTex)	UNI EN ISO 2060	44±2
Tenacity (cN/Tex)	UNI EN ISO 2062	39±2
Elongation (%)	UNI EN ISO 2062	26±3
Finishing Oil (%)	Internal method	2±0,2
Moisture recovery (%)	UNI EN ISO 62	4,1%
Crimp rigidity	HATRA	17±2

* The data presented is indicative and relates to a 44/40 dtex textured yarn. For more data sheets on different processes or counts contact the FULGAR laboratory or write to: info@fulgar.com

Dyeing specifications

The dyeing process was designed jointly with the Archroma® Group. Below we offer advice for the dyeing process with the relevant dyeing recipes performed.

Process tested on Circular knitting (PA 6.6 78f60 Q-NOVA® + LYCRA® 22 – gauge 44")



Recipes by R.B.1:10



Acid Dyeing Nylosan N

	BEIGE	BROWN	
YELLOW NYLOSAN N3RL	0.06	0.65	%
RED NYLOSAN N2RBL	0.03	0.5	%
BLUE NYLOSAN NBLN	0.045	0.65	%

Start dyeing pH 8.5

End dyeing pH 5.0

	BEIGE	BROWN	
OPTICID VS CONC.	0.6	0.6	cc/l
LYOGENE NH	1.0	1.0	%
LYOGENE CN	1.0	1.0	%

Dyeing conditions at 90° for 45 minutes.



Post fixing at 70°C for 20 min at pH 4.0

	BEIGE	BROWN	
NYLOFIXAN HF	4	4	cc/l

Recipes by  ARCHROMA

R.B.1:10

Dyeing Nylosan S

	MARINO	
YELLOW LANASYN M2GL	0.15	%
RED LANASYN MGA	2.0	%

Start dyeing pH 7.5

End dyeing pH 5.0

	MARINO	
Leonil EHC	0.12	%
LYOGENE NH	0.5	%
LYOGENE CN	1.0	%
OPTICID VS CONC.	1.2	%

Dyeing conditions at 90° for 60 minutes.

Fastness to washing	4,5/5	ISO 105E01
Fastness to perspiration	4,5/5	ISO 105E04
Fastness to light	4/5	ISO 105B02

Other:

Thermo-fixing temperature = 185°C

Remarks for publishing:

- Transfer/sublimation: It is advisable to use cards suitable for polyamides at a **maximum temperature of 180 °C, timing 10-15 sec, pressure 2-3 kg/cm²**

- Injet: No observable variations compared to the traditional process
- Frames: We advise you to consider all the comments made on the dyeing results

Other specifications

The following table shows evaluations and data collected from analysing knitted fabrics made with 100% Q-NOVA® r yarn.

Characteristic	Method	Value
Abrasion Needles	ISO 6330:2000	Normal as a standard PA
Martindale 5000	ISO 12946-1:1998	Really low reduction of weight
Fastness to NOX (OXIDES Nitrogen)	105-G01:1998	5

Other specifications

99% PA6,6 recycled pre-consumer certified by GRS

Global Recycle Standard (GRS) is promoted at international level by the Textile Exchange Organization.

The standard is applied to companies that produce and/or sale half-finished or finished products that include recycled material certified within the GRS program.