



by EDOARDO MIROGLIO

E.MIROGLIO – Svilosa Yarn Unit is an important part of E.MIROGLIO JSC . E.MIROGLIO – Svilosa Yarn Unit is one of worldwide companies specialised in rayon filament production. Not a small part of rayon filament yarn produced by E.MIROGLIO – Svilosa Yarn is used by E.Miroglgio JSC for production of wide range of yarns , fabrics, knitwear and other articles. E.MIROGLIO-Svilosa Yarn Unit is situated in north Bulgaria near to very old town with century-old history on the Danube riverside.

E.MIROGLIO – Svilosa Yarn Unit viscose filament yarn range of products with the trade mark SVILOTEX is under production by the use of developed and improved year after year own technology as the whole production process from the beginning till the final product needs not more 4 weeks. The final trade products of E.MIROGLIO – Svilosa Yarn Unit are raw white bright ,dyed in mass, dull, dull and dyed in mass and optically bleached rayon filament yarn in different finenesses rewinded on conical or cylindrical bobbins.

The whole process of rayon filament yarn production is situated in E.MIROGLIO – Svilosa Yarn Unit-Svishtov town. The range of yarns production ,fabrics and knitwear production are situated in other E.MIROGLIO JSC facilities situated on south Bulgaria in towns Jambol and Sliven.

One of the main advantage of E.MIROGLIO – Svilosa Yarn Unit rayon filament products is the client's service policy. The same includes stock service of around 130 different colours in different finenesses which gives chance as soon as possible to react to client's orders .

As a serious rayon filament yarn producer E.MIROGLIO – Svilosa Yarn Unit developed a wide innovation program and after 2020 expand the range of products under production with four new innovative ones three of which already are under Bulgarian and Turkish Patent offices defence. Other international applications are under final patent expertise in EU,USA and other countries.

E.MIROGLIO – Svilosa Yarn Unit is also ISO 9001-2015, ISO 14001-2015,ISO 45001,SA 8000 and FSC Chain of Custody certified. The other main advantages of E.MIROGLIO – Svilosa Yarn Unit rayon filament products are that they are certified as Products First Class according OEKO TEX Standard 100,ANNEX 6 more than 12 years and Ecolabeled as Eco products according EU Ecolabel:BG/016/002 license from the beginning of 2022.

The process of rayon filament production applied of E.MIROGLIO – Svilosa Yarn Unit is based on cellulose manufacturing and needs a very high quality of dissolving pulp. Because of limited market of this type of dissolving cellulose offering, all these years passed in search

of stability in quality and regularity of pulp supplying. Although that E.MIROGLIO – Svilosa Yarn Unit as a part of E.MIROGLIO JSC do not have direct contacts with wood harvesting of wood as raw material for dissolving pulp production E.MIROGLIO JSC become part of FSC family with company policy committed to:

- Conservation of Ancient and Endangered Forests and Intact Forest Landscapes.
- Recognizing, Respecting and Upholding Human Rights and the Rights of Communities
- Forest Certification, Further Advancement of Sustainable Sourcing and Forest Protection
- Transparency, Traceability and Verification
- Reduction of Environmental Impacts

Following E.MIROGLIO – Svilosa Yarn Unit FSC policy dissolving pulp for rayon filament yarn production is FSC certified only and all quantities delivered to us 2021,2022 and 2023 were FSC Mix Credit.

Pulp sourcing was arranged from one FSC certified supplier situated in Sweden only. Every year we have its actual confirmation about wood origin for our orders sourcing and confirmation that wood harvesting do not concerns Ancient and Endangered Forests and other controversial wood forests too.

E.Miroglio JSC never been indifferent to the efforts of national and international organizations regarding the seriousness and speed with which climate change is occurring . That was one of the reasons because of which E.Miroglio JSC start in 2019 cooperation with Canopy supporting Canopy's idea and suggestions to MMCF producers cellulose manufactured from wood for artificial fibers production to be not sourced from Ancient and Endangered Forests, such as Indonesia's tropical forest and Canada's and Russian Boreal Forests; Coastal Temperate Rain forests,the Amazon and West Africa, or endangered species habitat. This commitment addresses our own operations as well as our procurement practices. This policy supports principles that result in long-term environmental, social and economic benefits.

The developed of E.Miroglio JSC policy of raw material dissolving pulp sourcing guarantee that it will happens through suppliers that are transparent, traceable and comply with E.Miroglio JSC Fibre Procurement Policy for Protecting Forests . If suppliers contravene these criteria, we will first engage them to change practices and then re-evaluate our relationship with them if we find that cellulose is coming from sources that do not meet this policy.

E.Miroglio JSC is satisfied with Canopy cooperation and its support to our efforts to finish almost 3 years of research into the possibilities of using cellulose from wood alternatives. The idea for New Generation fibers ,replacing the same produced by wood is evaluate as an opportunity to developed new generation technologies in places where it is possible. As it was several times discussed with Canopy similar replacement of pulp produced on the base of wood with recycled one is not neither easy nor simple based on differences in technologies for the production of different types of artificial fibers considering existing requirements regarding raw materials and especially for cellulose used. Different technologies and equipment in practice and at the same time continuously increasing requirements for the quality of cellulose fibers are a challenge to overcome which requires time, investments and new generation cellulose fibers with a quality suitable for any production. Overcoming all these challenges will not be easy and will take time . WE could say now that the developed by E.Miroglio-Svilosa Yarn Unit technology for rayon filament production by the use of

mixture of cellulose produced by wood and recycled by cotton wastes cellulose at the same time by the use of continual process of viscose preparing is a success and a big step for New generation fibers implementation in MMCF products.

During 2021,2022 and 2023 we support Canopy's initiatives to:

-To pay attention of British Columbia Government concerning Great Bear Rainforest protection. An official letter was send to the British Columbia premier Horgan

-From July 2021 E.MIROGLIO – Svilosa Yarn Unit joined Canopy's Pack4Goog initiative. All rayon filament packages now are from 100% regenerated cellulose produced

-Several new generation cellulose fibers were investigated searching similar as quality to the wood cellulose in E.MIROGLIO – Svilosa Yarn Unit process used.

- E.MIROGLIO – Svilosa Yarn Unit sign in September 2021 official letter for....**Process for Canopy to support in the evaluation of new assets,pulp procurement and investments.**

-E.MIROGLIO – Svilosa Yarn Unit FSC certification and Canopy Hot Button report final evaluation supports the process of all production aspects evaluation and award the rayon filament yarn produced by E.MIROGLIO – Svilosa Yarn Unit as Ecoproduct and to be ecolabeled as Ecoproduct in accordance with EU ECOLABEL:BG/016/002 license.

-Range of actions for lab investigation of new generation cellulose fibers were finished including recycled cotton one approved for limited production trial.

-It was discussed with recycled cotton cellulose producer all possibilities for their recycled product quality improvement. Based on new sample of the same 1500 kg were ordered for a limited production trial.

-An example technology for recycled and wood cellulose mixture was developed which technology could be used during planned limited production trial. Trial run will be determined later having in mind clients orders fulfilling.

- E.MIROGLIO – Svilosa Yarn Unit supports Canopy's action against Arouco Group. An official letter was signed by our side concerning this matter.

-Letter of support for the Purchase of Next Generation Pulp for paper/packaging and MMCF textiles was signed by E,Miroglio JSC.

-All information by Canopy needed was properly prepared and send back with the Canopy questionnaire in September 2022.

-An action was started by E.Miroglio JSC concerning E.MIROGLIO – Svilosa Yarn Unit waste cotton materials .It was suggested to the company specialized in waste cotton garments recycling samples from cotton wastes for investigating possibilities for its future recycling. After month it will become clear is it possible our cooperation with this cotton recycling company to grow up.

-World's MMCF producers Call on the Convention of Biological Diversity to support implementation of conservation commitments at least 30 % of world's forests to be under protection till 2030 .

-Clear commitments were taken by E,Miroglio JSC as timeline fot NEXTGENfibers target till 2025.

In conclusion we will continue our cooperation with FSC and Canopy and to support Canopy and other NGO organizations efforts to protect and restore forests using an ecosystem-

based approach.

Executive Manager of E.MIROGLIO JSC and E.MIROGLIO-Svilosa Yarn Unit

23 06 2023

/Dr.Gaetano Rimini /

