



Branch“ PLANT KHMIVLOKNO” JSC “GRODNO AZOT”

The history of **Branch «Plant Khimvolokno» JSC «Grodno Azot»** dates back to December 11, 1971 and that was its construction commencement date.

First industrial yarn for cord fabric and mechanical rubber goods was produced on January 10, 1978. From that moment Grodno company of synthetic yarns has started its production activities.

In 1983 the enterprise was rearranged into Grodno Production Enterprise "Khimvolokno" and reorganization of the state enterprise into Joint Stock Company "Grodno Khimvolokno" was performed in 2002.

Since October 1, 2011 as per decision of extraordinary general meeting of shareholders of both JSC "Grodno Azot" and JSC "Grodno Khimvolokno" the latter was affiliated to JSC "Grodno Azot".

At present Branch «Plant Khimvolokno» is a large manufacturer of polyamide and polyester yarns and fibres, as well as virgin polyamide-6 (PA-6) and PA-6 based composite materials, including:

- PA-6 /granulated/;
- polyamide light&heat-stabilized yarn including spun-dyed one;
- polyamide twisted yarn;
- polyester HMLS yarn;
- polyester twisted yarn;
- polyamide texturized BCF yarn, as well as twisted BCF Heat-set;
- cord fabric for tyre industry both greige and dipped made from polyamide 6, polyamide 6.6 and polyester yarns;
- industrial fabric;
- polymer composite materials;
- consumer goods.

Each of main kinds of goods is manufactured in wide assortment with different physical & mechanical properties and quality indices depending on application range.

POLYAMIDE 6 BCF TEXTURIZED YARN

Polyamide 6 BCF texturized yarns for carpet floor coverings are produced at spin-draw-texturizing-winding equipment of Neumag, Germany. This high-tech equipment enables to manufacture yarn of profile section, bright or dull, undyed or spun-dyed.



Polyamide 6 BCF texturized yarn has a number of advantages when compared with the same kind of polypropylene yarn. Carpet floor covering made of polyamide 6 yarn is highly wear-resistant, antistatic, easy to clean and brings comfort in a room.

High evenness of physic & mechanical parameters and strength of yarn intermingled points coupled with low shrinkage at boiling (within 6-8%) of the yarn, produced by our company, allow to construct carpet floorings in keeping with the best European traditions and up to European standards.

We produce:

- polyamide 6 BCF texturized yarn, linear density dtex 1000 – 1800;
- polyamide 6 BCF twisted Heat Set yarn, structure dtex (1000-1800) x 2;
- polyamide 6 BCF twisted Heat Set Frieze yarn, structure dtex (1000-1800) x 2.

Polyamide 6 BCF twisted texturized Heat Set, BCF Frieze are used to produce premium carpet floor coverings of enhanced comfort.



POLYAMIDE 6 BCF TEXTURIZED YARN

Nominal linear density, dtex		1000, 1100, 1200, 1300, 1800
Deviation of conditional linear density from nominal one, %		±5
Number of filaments		68/128
Tenacity, mN/dtex, min		20.0
Elongation at break, %		28-40
Stretchability, %		9-13
Intermingling points per 1 m, units		25 – 40
Boiling water shrinkage during 10 min., % max		8
Crimpiness (in hot air), %, min		15
Bobbin type		cylindrical
Bobbin weight, kg		(4-4,5)±0,1
Tube dimensions, mm, L/ Ø		292,0 / 73,0
Beam diameter , mm, max		260,0
Remarks	bright , dull, semi-dull, of profile section (trilobal) , undyed, spun-dyed	

PACKING

Each bobbin is wrapped up with PE foil. Bobbins are placed onto pallets with forming a block-pack. Block-packs are stretch-foiled. Standard block-packs are formed on pallets: 1200x1000 mm.



TRANSPORTATION

Block-packs are carried in 40' containers and trucks

POLYAMIDE 6 BCF TEXTURIZED HEAT SET YARN

Yarn structure, dtex		1000 x 2 1100 x 2 1200 x 2 1300 x 2 1800 x 2
Deviation of conditional linear density from nominal one, %		±5
Tenacity, mN/dtex, min		20.0
Elongation at break, %		40-70
Number of turns per 1 m of yarn, units		(150-250) ±15
Twist direction		Z (S)
Boiling water shrinkage (15 min), %, max		4,0
Bobbin type		cylindrical
Bobbin weight, kg		(4-4,5)±0,2
Tube dimensions, mm, L/ Ø		292,0 / 73,0
Beam diameter , mm, max		310,0
Remarks	bright , dull, semi-dull, of profile section (trilobal) , undyed, spun-dyed, Frieze	

PACKING

Each bobbin is wrapped up with PE foil. Bobbins are placed onto pallets with forming a block-pack. Block-packs are stretch-foiled. Standard block-packs are formed on pallets: 1200x1000 mm.



TRANSPORTATION

Block-packs are carried in 40' containers and trucks

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THANK YOU FOR YOUR ATTENTION!

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