

## Nexis Fibers Polyamide (Nylon) 6 Types

Type	Tenacity*		El.*	Shr*	Decitex	Typical Applications	Description and Advantages in End Products
	cN/Tex	gpd	%	%**	Range		
371	81	9,2	22,5	9,6	700-2800	Ropes, Nets, Narrow and Broad Wovens	<b>High Tenacity, UV protected.</b> Provides high knot resistance. Higher dyeing yield than PA 6.6, less dyestuff and less temperature at dyeing.
370	80	9,1	24,0	7,0	700-2800	Ropes, Nets	<b>Lower Shrinkage.</b> Higher dyeing yield than PA6.6 and same shrinkage as PA 6.6.
373	80	9,1	21,0	13,5	1400-2100	Ropes, Nets	<b>Super high Shrinkage.</b> Higher elasticity after shrinking (dynamic ropes), tighter knots after shrinking (nets).
325	50	6,2	50,0	9,0	940-1880	Specialty Ropes	<b>Very High Elongation.</b> For high elasticity products (i.e. dynamic ropes).
323	65	7,4	30,0	11,0	1400	Specialty Ropes	<b>High Elongation.</b> For high elasticity products as dynamic ropes.
322	60	7,1	40,0	11,0	1400-2100	Specialty Ropes	<b>High Elongation.</b> For high elasticity products as dynamic ropes.
372	84	9,5	21,5	10,0	940-2100	Ropes, Narrow and Broad Wovens	<b>Super High Tenacity.</b> High knot resistance in static ropes. Higher dyeing yield than PA 6.6 in woven fabrics.
372H	70	8,0	21,0	8,5	940 - 1400	Ropes, Narrow and Broad Wovens	<b>Hydrophobic yarn with 85% less water absorption</b> than standard yarns.
851	85	9,6	22,0	9,5	940-1880	Tires, MRG, Others	<b>Heat Protected, Super High Tenacity.</b> For heat resistant products such as tire cords, mechanical rubber goods, PCR and other end-uses.
853	83	9,4	24,0	6,1	940-1880	Tires, MRG, Others	<b>Heat Protected, Super High Tenacity, Lower shrinkage.</b> For heat resistant products such as tire cords, mechanical rubber goods and other end-uses.
051	72,5	8,2	23,0	9,5	940-1880	Ropes, Nets, Narrow Wovens	<b>Spun dyed.</b> For high light and wash fastness, as well as abrasion resistance.
052	72,5	8,2	23,0	9,5	940 - 1400	Ropes, Nets, Narrow Wovens	<b>Spun dyed Neon colors.</b> For flashy color effect (Caution: Lower UV and wet fastness)
051H 052H	67,5	7,6	24,5	9,8	940	Specialty Ropes	<b>Hydrophobic spun dyed yarn with 85% less water absorption</b> than standard yarns.

## Nexis Fibers Polyamide (Nylon) 6.6 Types

Type	Tenacity*		El.*	Shr*	Decitex	Typical Applications	Description and Advantages in End Products
	cN/Tex	gpd	%	%**	Range		
583	64	7,3	23,0	4,3	235-470	Broad and Narrow Wovens, Sew. thread	<b>Spun dyed.</b> Possibility to produce all colors offered in PA6 T051. Woven warp, weft and sewing threads.
681	73	8,3	23,5	6,5	235-470	Narrow weaving	<b>Medium shrinkage</b> yarn from 1 step process. Main end-use curing tapes.
682	84,5	9,6	23,0	5,0	235-700	Airbag Fabrics	<b>Super High Tenacity standard for Airbags.</b> For airbag fabrics and other woven applications.
683	74	8,4	25,0	4,1	235-470	Broad and Narrow Wovens	<b>Low shrinkage yarn.</b> Good dyeability for broad weaving
684	74	8,4	25,0	4,1	235-470	Broad Wovens	As T683 with <b>Low Intermingling.</b> Adapted for weft in broad woven products to avoid screen effect.
685	74	8,4	25,0	8,0	235-470	Broad and Narrow Wovens, Sew. Threads	<b>High Shrinkage,</b> Woven applications, warp and weft.
650	85	9,6	20,0	7,0	940-2800	Tires, MRG and Wovens	<b>High Tenacity.</b> For <b>tire cords</b> , mechanical rubber goods, and woven fabrics with standard shrinkage.
653	84	9,5	21,5	4,5	940-2100	Tires, MRG and Wovens	<b>Low Shrinkage.</b> For tire cords, mechanical rubber goods, and weaving applications requiring lower shrinkage.
654	92	10,5	20,0	6,5	940-2800	Tires, MRG and Wovens	<b>Super High Tenacity.</b> Standard Shrinkage. For tire cords, mechanical rubber goods, and woven fabrics.
656	85	9,6	18,0	7,0	700 - 940	Tires and MRG	<b>High Modulus, Low Elongation.</b> For tire cords, and mechanical rubber goods.

## Contacts

### Sales contact:

• Europe: +421 917 472 019  
laura.salatova@nexis-fibers.com

• Americas & South Africa:  
+1770 331 5380  
barbara.danak@nexis-fibers.com

### Technical contact:

+421 917 472 041  
tomas.krsko@nexis-fibers.com

+421 905 648 184  
juraj.dluzanin@nexis-fibers.com

bluesign  
SYSTEM PARTNER



**NEXIS** Member of ARKERO GROUP

www.nexisfibers.com

\* Physical properties measured according to BISFA with 60tpm. Please contact your local Nexis Fibers representative for detailed product specifications.

\*\* Hot air shrinkage at 180°C - 2min under pretension 0.5cN/Tex  
° Discontinued products

## Nexis Fibers Textured Types

Type	Tenacity*		El.*	Shr*	Decitex	Typical Applications	Description and Advantages in End Products
	cN/Tex	gpd	%	%**	Range		
5837	43	4,8	20	4,2	550-1100	Broad, Narrow Wovens, Sewing Threads	Polyamide (Nylon) 6.6 – Spun dyed yarn. <b>Low shrinkage.</b>
6537	50	5,6	19,5	4,5	1000-3000	Broad and Narrow Wovens, Tires, MRG	Polyamide (Nylon) 6.6 – Standard tenacity and <b>lower shrinkage</b> in weaving.
6837	46	5,2	19,5	4,3	500-1000	Broad and Narrow Wovens, Sew. Threads	Polyamide (Nylon) 6.6 – <b>Good dyeability and lower shrinkage</b> textured yarn.
6827	53	6,0	16,0	5,7	370-1000	Broad and Narrow Wovens, Sew. Threads	Polyamide (Nylon) 6.6 – <b>Fine filaments:</b> as low as 2.6dpf, versus traditional of 6.7dpf. For filtration or soft touch dyed woven fabrics.
3727	64	7,2	20,6	10,0	1000-3000	Broad and Narrow Wovens	Polyamide (Nylon) 6 – <b>Good dyeability</b> , higher tenacity textured yarn.
*0517 0527*	56	6,4	22,9	9,5	1000-3000	Narrow, Broad Wovens, Ropes and Nets	Polyamide (Nylon) 6 – <b>Spun dyed</b> , high tenacity textured yarn.

## Nexis Fibers Bio Based Polyamide (Nylon) 6.10 Types

Type	Tenacity*		El.*	Shr*	Decitex	Typical Applications	Description and Advantages in End Products
	cN/Tex	gpd	%	%**	Range		
951	72	8,2	17,5	12,5	940-1400	Broad and Narrow Wovens, Tires, MRG	Polyamide 6.10 <b>Bio-based yarn.</b> 63% content of bio- based monomer.
923	55	6,2	30,0	13	1400	Ropes	Polyamide 6.10 <b>Bio-based yarn.</b> 63% content of bio- based monomer.

## Nexis Fibers Polymer Types

PA6.10			PA6.12			Other Polyamide (Nylon) 6.10 and 6.12 chips properties:	Advantages:	Advantages:
Type	Viscosity ml/g *	Solidif. point °C	Type	Viscosity ml/g *	Solidif. point °C			
7005	113	185	8030	138	170	<ul style="list-style-type: none"> <li>Moisture Content: 0.03%</li> <li>Chip Weight: 13 mg</li> <li>Chip Dimensions: 2.7mm x 2.8mm x 3.4mm</li> <li>Available in sacks, big bags, octabins</li> <li>Melting Point: 218°C (PA6.10) ; 215°C (PA6.12)</li> </ul>	<ul style="list-style-type: none"> <li>Abrasion resistance</li> <li>Resistance to chemicals</li> <li>Resistance to hydrolysis</li> <li>Low moisture absorption</li> <li>Dimensional stability</li> </ul>	<ul style="list-style-type: none"> <li>Engineering plastics</li> <li>Paper Machine Clothes</li> <li>Toothbrushes</li> <li>Fishing lines</li> <li>Ropes</li> <li>Tennis racket cords</li> </ul>
7011	125	185	8040	160	170			
7030	138	185	8050	180	170			
7035	154	185	8060	200	170			
7040	189	185	8070	220	170			
7050	223	185	Under development					
7060	248	185	8005	113	186	Custom polymers, post condensation of most polymers also available		

## Nexis Fibers Twisting Capabilities

KNOTTED NETS TWINES					SPECIALTY ROPES, MARINE ROPES, HIGH TENACITY THREADS			OTHER TWISTED YARNS		POSSIBLE PACKAGE SIZES		
210/n singl/ total	Examples of constructions	"dtex 1st twist"	"dtex 2st twist"	Examples of constructions (For over-oiling, please ask your Tech Support)			Examples of constructions		Knotted nets	Twines for ropes, High tenacity threads	Other twisted yarns	
6 / 18	1400x1S425 x3Z230	1400	4200	940 x1	110x1 Z75	PES 78f24 SD Z800 FIX	PES 74f24x1 S830 x2 Z700					
10/30	(1400+940)x1S380 x3Z195	2340	7020	1400 x2	110x1 Z300 FIX	PES 78f24 SD Z400 FIX	PES 275f48 x1 S570 x3 Z380					
14/42	(1880+1400)x1S350x3Z180	3280	9840	1400 x6	110x1 Z400 x2 S400	PES 83f36 TXT SD S120	PES 455f96 x1 S470 x3 Z325					
16/48	1880x2S300 x3Z160	3760	11280	1400 x2 x3	235x1 Z140	PES 83f36 BR TXT S450 FIX	PES 1100x4 S80	- From 140mm to 275 mm - From 2.2Kg to 12.5Kg - Packaging in big boxes or on beeboard pallets	- From 180mm to 270 mm - From 2.1Kg to 9.2Kg - Packaging : Consult with Tech Support	On request. Consult with Tech Support		
18/54	1400x3S275 x3Z145	4200	12600	1400 x2 x4	235x1 S200 x2 Z200	PES 83f36 TXT BLK S600 FIX	PES 330f72 SD TXT S120					
32/96	1880x4 S220 x3Z115	7520	22560	1400 x6 x3	470x1 Z150	PES 167f36 TXT SDS400 FIX						
48/144	1400x8 S180 x3Z95	11200	33600	1400 x7 x3	470x1 Z280 FIX	PES 330f72 SD TXTS120 FIX						
84/252	1880X10 S140 x3Z70	18000	54000	1880 x18	700x1 Z100	PES 330f96 BR Z150 FIX						
128/384	1880X16 S100 x3Z55	30080	90240	1400 x30								