

**POLYESTER HIGH  
TENACITY YARN**



## High Tenacity Regular Shrinkage Yarn

Titer	Dtex	280	550	930	1100	1440	1670	2200	2880	3300	4400	5500	6600
	Denier	250	500	840	1000	1300	1500	2000	2600	3000	4000	5000	6000
Filaments	f	48	96	192	192	192	192	384	384	384	576	768	768
Breaking Strength	N	≥22	≥43	≥74	≥89	≥117	≥135	≥178	≥233	≥267	≥356	≥440	≥528
	Kg	≥2.2	≥4.4	≥7.5	≥9.1	≥11.9	≥13.8	≥18.2	≥23.8	≥27.3	≥36.4	≥44.9	≥53.9
	Lbs	≥4.8	≥9.6	≥16.6	≥20.0	≥26.2	≥30.4	≥40.1	≥52.5	≥60.1	≥80.2	≥99.0	≥118.8
Tenacity	cN/dtex	≥7.7	≥7.8	≥8.0	≥8.1	≥8.1	≥8.1	≥8.1	≥8.0	≥8.0	≥8.0	≥8.0	≥8.0
	g/d	≥8.7	≥8.8	≥9.1	≥9.2	≥9.2	≥9.2	≥9.2	≥9.1	≥9.1	≥9.1	≥9.1	≥9.1
Elongation	%	14±2	14±2	14±2	14±2	14±2	14±2	14±2	14±2	14±2	14±2	14±2	14±2
Hot Air Shrinkage 177°C, 2min, 0.05cN/dtex	%	7.5±1.5	7.5±1.5	7.5±1.5	7.5±1.5	7.5±1.5	7.5±1.5	7.5±1.5	7.5±1.5	7.5±1.5	7.5±1.5	7.5±1.5	7.5±1.5

Notice: We can make products according to customer's requirements.

Application: Sling, Tie-down, Strapping, Conveyor belt fabric, Geotextile, Dipped Cord, Hose, Sunshade, Outdoor furniture, Rope, Net

## Low Shrinkage Yarn

Titer	Dtex	280	550	930	1100	1440	1670	2200	2880	3300
	Denier	250	500	840	1000	1300	1500	2000	2600	3000
Filaments	f	48	96	192	192	192	192	384	384	384
Breaking Strength	N	≥20	≥39	≥67	≥79	≥104	≥120	≥158	≥207	≥238
	Kg	≥2.0	≥3.9	≥6.8	≥8.1	≥10.6	≥12.3	≥16.2	≥21.1	≥24.2
	Lbs	≥4.4	≥8.6	≥15	≥17.8	≥23.3	≥27.0	≥35.5	≥46.5	≥53.3
Tenacity	cN/dtex	≥7.0	≥7.0	≥7.2	≥7.2	≥7.2	≥7.2	≥7.2	≥7.2	≥7.2
	g/d	≥7.9	≥7.9	≥8.2	≥8.2	≥8.2	≥8.2	≥8.2	≥8.2	≥8.2
Elongation	%	20±2	20±2	20±2	20±2	20±2	20±2	20±2	20±2	20±2
Hot Air Shrinkage 177°C, 2min, 0.05cN/dtex	%	1.7±0.3	0.8±0.3	0.8±0.3	0.8±0.3	0.8±0.3	0.8±0.3	0.8±0.3	0.8±0.3	0.8±0.3
Hot Air Shrinkage 190°C, 5min, 0.01cN/dtex	%	5.0±0.5	3.5±0.5	3.2±0.5	3.2±0.5	3.2±0.5	3.2±0.5	3.2±0.5	3.2±0.5	3.2±0.5

Notice: We can make products according to customer's requirements.

Application: Banner, Tarpaulin, Roofing, Sunshade, Membrane structure, Awning, Filter fabric, Outdoor furniture, Hose, Sewing thread

## Super Low Shrinkage Yarn

Titer	Dtex	550	930	1100	1440	1670	2200
	Denier	500	840	1000	1300	1500	2000
Filaments	f	96	140	192	192	192	384
Breaking Strength	N	≥39	≥65	≥77	≥100	≥117	≥154
	Kg	≥3.9	≥6.6	≥7.8	≥10.2	≥11.9	≥15.7
	Lbs	≥8.7	≥14.9	≥17.6	≥23.0	≥26.7	≥35.1
Tenacity	cN/dtex	≥7.0	≥7.0	≥7.0	≥7.0	≥7.0	≥7.0
	g/d	≥7.9	≥7.9	≥7.9	≥7.9	≥7.9	≥7.9
Elongation	%	23±2	23±2	23±2	23±2	23±2	23±2
Hot Air Shrinkage 177°C, 2min, 0.05cN/dtex	%	≤0.6	≤0.6	≤0.6	≤0.6	≤0.6	≤0.6
Hot Air Shrinkage 190°C, 5min, 0.01cN/dtex	%	2.5±0.3	2.5±0.3	2.5±0.3	2.5±0.3	2.5±0.3	2.5±0.3

Application: Banner, Tarpaulin, Roofing, Sunshade, Membrane structure, Sewing thread, Filter fabric

## Abrasion Resistance Yarn

Titer	Dtex	550	1100	1100	1670	1670	2200
	Denier	500	1000	1000	1500	1500	2000
Filaments	f	70	70	96	140	96	192
Breaking Strength	N	≥42	≥86	≥88	≥134	≥129	≥176
	Kg	≥4.3	≥8.8	≥9.0	≥13.6	≥13.1	≥18.0
	Lbs	≥9.4	≥19.3	≥19.8	≥30.0	≥28.9	≥39.6
Tenacity	cN/dtex	≥7.6	≥7.8	≥8.0	≥8.0	≥7.7	≥8.0
	g/d	≥8.6	≥8.8	≥9.0	≥9.0	≥8.7	≥9.0
Elongation	%	14±2	14±2	14±2	14±2	14±2	14±2
Hot Air Shrinkage 177°C, 2min, 0.05cN/dtex	%	7.5±1.5	7.5±1.5	7.5±1.5	7.5±1.5	7.5±1.5	7.5±1.5

Notice: We can make products according to customer's requirements.

Application: Seat belt, Rope, Sling, Safety belt.

## Adhesive Activated Yarn

		HT AA yarn	LS AA yarn	HMLS AA yarn
Titer Range		Dtex	550-6600	1100-3300
		Denier	500-6000	1000-3000
Typical product		1100dtex/192f	1100dtex/192f	1100dtex/320f
Breaking Strength		N	≥89	≥79
Tenacity		cN/dtex	≥8.1	≥7.2
Elongation		%	14±2	12.5±2
Hot Air Shrinkage 177°C,2min,0.05cN/dtex		%	7.5±1.5	3.0±0.5
Oil pick up		%	0.85±0.15	0.85±0.15

Application: Rubber reinforcement materials

## Anti Wicking Yarn

Titer		Filaments	Breaking Strength	Tenacity	Elongation	Hot Air Shrinkage	Hot Air Shrinkage	Wicking Height
Denier	Dtex	f	N	cN/dtex	%	177°C, 2min, 0.05cN/dtex	190°C, 5min, 0.01cN/dtex	mm in 24 hours
500	550	96	≥39	≥7.0	20.0±2	0.8±0.5	3.5±0.3	≤4.0
840	930	192	≥67	≥7.2	20.0±2	0.8±0.5	3.2±0.3	≤4.0
1000	1100	192	≥77	≥7.2	23.0±2	≤0.6	2.5±0.3	≤4.0

Notice: We can make products according to customer's requirements.

Application: Superior quality banner, Superior quality tarpaulin, Superior quality membrane structure

## Extra Super Shrinkage Yarn

Titer		Filaments	Breaking Strength	Tenacity	Elongation	Hot Air Shrinkage
Dtex	Denier	f	N	cN/dtex	%	190°C, 5min, 0.01cN/dtex
1100	1000	192	≥75	≥6.8	24±2	1.7±0.3

Application: Superior quality banner, Superior quality tarpaulin, Superior quality membrane structure.



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