



An Indorama Ventures Company

Yarn Types and Properties



Diolen® ▪ Enka® Nylon ▪ Enkalon® ▪ Stanylenka®

Yarn Types and Properties

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Polyester (PET) Yarn Types

Diolen®

High-tenacity Polyester Yarns - Diolen®

Trade Name / Type No.	Linear Density dtex	Number of Filaments	Main Applications
Diolen® 54S	550	28	Seatbelts
Diolen® 57T	140	24	Broad fabrics, Sail cloth, Seatbelts
	225	48	
	280	48	
	330	48	
	420	96	
	550	96	
Diolen® 61ST super low shrinkage	280	48	Broad fabrics, Seatbelts
	550	105	
Diolen® 164S adhesive activated	1100	210	Mechanical rubber goods (MRG), Broad fabrics, Light-weight conveyor and processing belts, Heavy-weight conveyor belts, Geotextiles, Transmission belts, Hoses
	1670	210	
	2200	420	
	3300	630	
	9900	1890	
	19800	3780	
Diolen® 165ST adhesive activated	1100	210	Mechanical rubber goods (MRG), Broad fabrics
	1670	210	
Diolen® 170ST low shrinkage	1100	210	Broad fabrics, Light-weight conveyor and processing belts
	1670	210	
Diolen® 170ST-FC food contact	1100	210	Food packaging applications, Textiles with food contact
	1670	210	
Diolen® 170SST super low shrinkage	1100	210	Broad fabrics
Diolen® 174S super low shrinkage	1100	210	Broad fabrics, Light-weight conveyor and processing belts, Geotextiles, Hoses
	1440	210	
	1670	210	
	2200	420	
	3300	630	
Diolen® 174ST super low shrinkage	1100	210	Broad fabrics, Light-weight conveyor and processing belts
Diolen® 175SLC super low capillarity	1100	210	Broad fabrics, Tents, Textile constructions
	1670	210	
	2200	420	
Diolen® 181T	880	105	Broad fabrics, Sail cloth
	1100	105	
Diolen® 775 adhesive activated	1100	210	Mechanical rubber goods (MRG), Geotextiles, Transmission belts, Hoses
	3300	630	
Diolen® 855T	1100	210	Broad fabrics, Heavy-weight conveyor belts, Geotextiles, Hoses, Narrow-woven belts, Nets, Ropes
	1670	210	
	2200	210	

Polyamide 6.6 Yarn Types

Enka® Nylon

High-tenacity Polyamide 6.6 Yarns - Enka® Nylon

Trade Name / Type No.	Linear Density dtex	Number of Filaments	Main Applications
Enka® Nylon 140HRT	700	108	Air springs, Broad fabrics, Conveyor belts, Hoses, Narrow fabrics, Ropes, Sewing threads, Tires, Transmisson belts
	940	140	
	1400	210	
	1880	280	
	2100	280	
Enka® Nylon 140HRT-FC food contact	940	140	Food packaging applications, Textiles with food contact
	1400	210	
Enka® Nylon 142HRT super high-tenacity	940	140	Air springs, Hoses, Ropes, Special tires
	1400	210	
Enka® Nylon 154HRST low shrinkage	940	140	Mechanical rubber goods (MRG), Bicycle racing tires, Broad and Narrow fabrics, Nets
	1880	280	
Enka® Nylon 433HRST	235	36	Sewing threads, Mechanical rubber goods (MRG),
	312	72	
	470	72	
Enka® Nylon 434HRT	78*	36	Mechanical rubber goods (MRG), Fishing lines
Enka® Nylon 442HRT super high-tenacity	470	72	Airbags
Enka® Nylon 444HRT	235	36	Broad and Narrow fabrics
Enka® Nylon 444HRST low shrinkage	110	18	Air springs, Broad and Narrow fabrics, Sewing threads, Tires
	235	36	
	470	72	
Enka® Nylon 446HRT super high-tenacity	235*	72	Airbags
	350*	140	
	470*	140	
	580	140	
	700	108	
Enka® Nylon 447HRT	235*	72	Airbags
	350*	144	
	470*	144	

* LDPF yarn types (Low denier per filament)

Polyamide 6 Yarn Types

Enkalon®

High-tenacity Polyamide 6 Yarns - Enkalon®

Trade Name / Type No.	Linear Density dtex	Number of Filaments	Main Applications
Enkalon® 429HRT	470	72	Transmission belts
Enkalon® 540T	940 1400 1880	140 210 280	Braided goods, Broad and Narrow fabrics, Nets, Ropes, Transmission belts

Polyamide 4.6 Yarn Types

Stanylenka®

High-tenacity Polyamide 4.6 Yarn - Stanylenka®

Trade Name / Type No.	Linear Density dtex	Number of Filaments	Main Applications
Stanylenka® 460HRST low shrinkage	470 940 1400	72 144 216	Airbag sewing threads, Transmission belts

Addresses and Contacts

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