

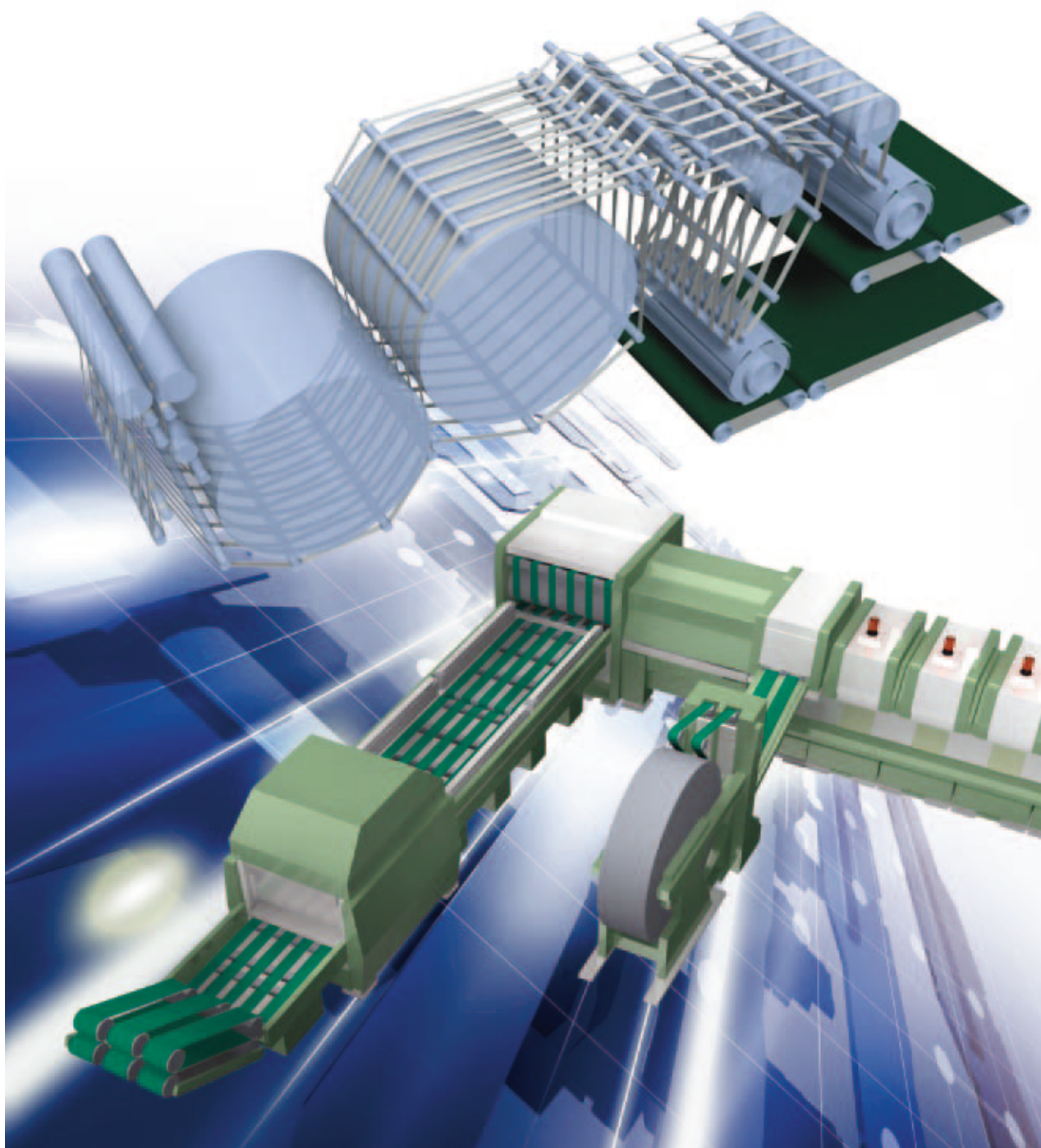
Belts for

Printing and Bookbinding industry



NITTA

B-PA-03E



The NITTA Advantage-Innovative Products and Solutions

Wide Variety

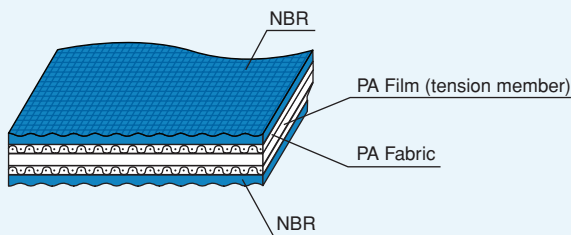
Long Life

Abrasion Resistance

High Flexibility

Anti-Static

NittaBeltPoly



Standard Elongation=1%

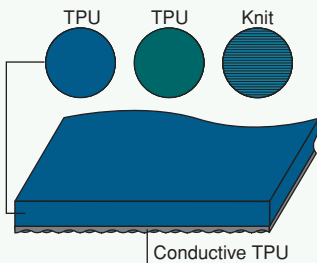
Nomenclature

SG	-	500	PA Film Thickness in mm × 1000 (0.5 × 1000 = 500)
		L	

[Surface]
SG: Coated Fabric
L: Light
M: Medium
H: Heavy

PolySprint™

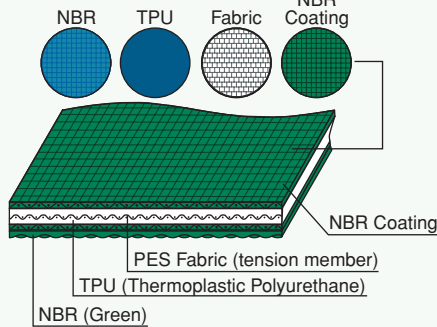
●Elastic Type



Conductive TPU

Standard Elongation=5%

●Polyester fabric member type



Standard Elongation=1%

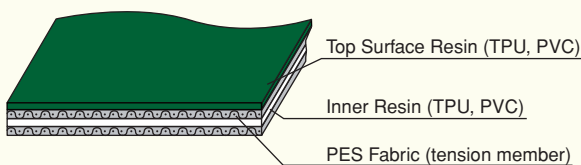
Nomenclature

LA	-	4E	14	Belt Thickness in mm × 10	
			TTE		18
			FZ		12

[Surface]
LA: Blue NBR on Both Surfaces
TTE: Special Fabric
FZ: Special Fabric + NBR on Back Surface

Belt Tension in N/mm
(1% Elongation at 200 hrs running)

NLG™



Standard Elongation =0.5% (Depending on type)

Nomenclature

GU	-	12	A	[Belt Construction] A: Resin/Fabric D: Fabric/Fabric K: Not Anti-Static
			GUF	

[Surface]
GU: Green TPU (Hard)
GUF: Green TPU + Fluororesin Sheet
GUTW: Green TPU + Textured Pattern

[Strength (N/mm) ÷ 10]



Super-strong polyamide core, extended-life skived joining, high operating duty cycles

- **High Strength, Long Life** – High flexibility and rugged design for heavy-duty applications. Polyamide core accommodates shock loads, and wide choice of covers provide abrasion resistance, giving long, dependable service.
- **Electrically Conductive** – Materials with anti-static properties are used in specific layers to provide permanent conductivity, eliminating build-up of electro-static charges.
- **Environmental Resistance** – Selected materials are not susceptible to oil contamination. They demonstrate high energy efficiency and maintain high friction resistance. Covers and polyamide core are designed for printing and paper processing with high tear resistance in folder, sheeter and finishing line paper jams.

Finger-spliceable, easy installation, quick-melt urethane, high-strength polyester core

- **Ease of Joining** – A single action Nitta cutter eliminates the tedious task of multiple cuts that can lead to mismatched and non-aligned joints. Finger-splice joints are completed without adhesive. Nitta presetter guiderails assure alignment.
- **Dimensional Stability** – Polyester fabric used as tension member provides high dimensional stability. Selected materials are temperature and humidity tolerant.
- **Abrasion Resistance** – High temperature friction resistant covers and fabric exclusively designed for printing and paper.

Hundreds of configurations, wide variety of surfaces

- **Extensive Selection** – Nitta NLG (New Light Grip) and other product categories offer many possible options.
- **Many Applications** – Light-/medium-duty use throughout pressrooms and binderies.

Specifications

Products	Belt type	Thickness (mm)	Surface * (Top/Bottom)	Tension member *2	Minimum pulley diameter (mm)	Tension @ standard Elongation (N/mm) *3	Standard Elongation (%)	Recommended Elongation (%)	Weight (kg/m ²)	Antistatic	Temperature Range (°C)	Maximum width (mm)
NittaBeltPoly	SG-250	0.8	NBR Coating Fabric/NBR Coating Fabric	PA	φ 25	1.5	1	1~3	0.8	○	-20~+80	300
	SG-350	0.95	NBR Coating Fabric/NBR Coating Fabric	PA	φ 35	2.6	1	1~3	0.9	○	-20~+80	300
	SG-500	1.1	NBR Coating Fabric/NBR Coating Fabric	PA	φ 50	3.75	1	1~3	1.1	○	-20~+80	300
	SGL-500	1.3	NBR Coating Fabric/NBR	PA	φ 50	3.75	1	1~3	1.4	○	-20~+80	300
	SG-750-2P	1.1	PA /NBR Coating Fabric	PA	φ 50	5.6	1	1~3	1.2	—	-20~+80	300
	L-250	1.25	NBR/NBR	PA	φ 25	1.5	1	1~3	1.4	○	-20~+80	300
	L-350	1.4	NBR/NBR	PA	φ 35	2.6	1	1~3	1.6	○	-20~+80	300
	L-500	1.55	NBR/NBR	PA	φ 50	3.75	1	1~3	1.8	○	-20~+80	300
	KCS-350	1.1	PA Fabric/NBR Coating Fabric	PA	φ 35	2.6	1	1~3	0.8	○	-20~+80	300
	KCS-500	1.2	PA Fabric/NBR Coating Fabric	PA	φ 50	3.75	1	1~3	1.0	○	-20~+80	300
	LS-350	1.2	NBR/NBR Coating Fabric	PA	φ 35	2.6	1	1~3	1.2	○	-20~+80	300
	LS-500	1.35	NBR/NBR Coating Fabric	PA	φ 50	3.75	1	1~3	1.4	○	-20~+80	300
	IRTA-350	1.15	NBR/PA Fabric	PA	φ 35	2.6	1	1~3	1.2	○	-20~+80	300
	GLTA-350	1.45	NBR/PA Fabric	PA	φ 35	2.6	1	1~3	1.6	○	-20~+80	300
PolySprint	TTE-4E18	1.8	Special Fabric/Special Fabric	PE	φ 40	4.0	1	0.5~2	1.7	○	-20~+60	100
	TTF-4E10	1.0	Special Fabric/Special Fabric	PE	φ 15	4.0	1	0.5~2	1.0	○	-20~+60	100
	TTZ-4E10	1.0	Special Fabric(NBR coating)/Special Fabric(NBR coating)	PE	φ 30	4.0	1	0.5~2	1.0	○	-20~+60	100
	FZ-5E12	1.25	Special Fabric(NBR coating) /NBR	PE	φ 35	5.0	1	0.5~2	1.2	○	-20~+60	100
	LA-4E14	1.4	NBR/NBR	PE	φ 25	4.0	1	0.5~2	1.5	○	-20~+60	100
	LA-15E20	2.0	NBR/NBR	PE	φ 40	15.0	1	0.5~2	2.2	○	-20~+60	100
	SG-4E08	0.8	NBR/ Hard TPU	PE	φ 15	4.0	1	0.5~2	0.8	○	-20~+60	100
	W-4E14	1.4	TPU/TPU	PE	φ 25	4.0	1	0.5~2	1.6	○	-20~+60	100
	DB-4E14	1.4	TPU/TPU	PE	φ 25	4.0	1	0.5~2	1.6	○	-20~+60	100
	SLA-8E14	1.4	NBR/NBR	PE	φ 25	8.0	1	0.5~2	1.7	○	-20~+60	100
	TA09	0.9	TPU/TPU	—	φ 20	0.5	5	3~8	0.9	○	-20~+60	100
	TA12	1.2	TPU/TPU	—	φ 25	0.7	5	3~8	1.1	○	-20~+60	100
	TA-S6	0.9	TPU/TPU	Knit	φ 25	0.7	5	3~8	1.0	○	-20~+60	100
	HTA09	0.9	Hard TPU/TPU	—	φ 25	0.5	5	3~8	0.9	○	-20~+60	100
	NTA	1.0	Knit/TPU	—	φ 25	0.5	5	3~8	0.9	○	-20~+60	100
	STC-10	1.35	Knit/TPU	—	φ 25	0.5	5	3~8	1.3	○	-20~+60	100
	TC	1.4	TPU/TPU	—	φ 40	0.8	5	3~8	1.5	○	-20~+60	100
NLG	GUF-12AK	1.3	Fluoro resin/PE	PE	φ 50	2.0	0.5	0.3~1	1.3	—	-20~+80	1000
	GUH-12A	1.3	Hard TPU/PE	PE	φ 30	2.0	0.5	0.3~1	1.3	○	-20~+80	1500
	GUTW-12A	1.8	TPU/PE	PE	φ 30	2.0	0.5	0.3~1	1.7	○	-20~+80	1500
	GU-12A	1.3	TPU/PE	PE	φ 20	2.0	0.5	0.3~1	1.3	○	-20~+80	1500
	GUSR-14ANL	2.1	Soft TPU/PE	PE	φ 40	2.0	0.5	0.3~1	1.8	○	-20~+80	1500
	GU-12D	1.1	PE/PE	PE	φ 40	2.0	0.5	0.3~1	1.0	○	-20~+80	1500
	GU-12DS	1.0	Special Fabric/PE	PE	φ 40	2.0	0.5	0.3~1	1.0	○	-20~+80	1500

*1 Also possible to use the reverse side depending on application.

*2 Material PA:Polyamide Film PE:Polyester Fabric TPU:Thermoplastic Polyurethane NBR:Nitrile Rubber

*3 Tension measured after running for 200 hours.

Printing processes				Bookbinding processes				Conveyor	Features	Finger Splice	Skiver Splice	Splicing Tool Number (Page 9-10)
Offset Sheet Fed Press	Offset Web Press	Gravure Rotary Press	Newspaper Rotary Press	Collator	Folding machine	Saddle stitcher line	Bookbinder					
●								Moderate slip, strong grip		●	12 · 13	
●				●	●		●	Moderate slip, strong grip		●	12 · 13	
●	●				●	●		Moderate slip, strong grip, flange resistance, high-speed application		●	12 · 13	
	●							Moderate slip, strong grip, flange resistance, high-speed application		●	12 · 13	
			●					Ink-repellent, flange resistance		●	12 · 13	
							●	Stable coefficient of friction and high abrasion resistance.		●	12 · 13	
	●				●		●	Stable coefficient friction and high abrasion resistance.		●	12 · 13	
	●				●			Flange resistance, high-speed application		●	12 · 13	
	●							Top is high slip, Bottom is moderate coefficient of friction		●	12 · 13	
	●					●		Top is high slip, Bottom is moderate coefficient of friction		●	12 · 13	
					●			Stable coefficient of friction and high abrasion resistance.		●	12 · 13	
					●			Stable coefficient of friction and high abrasion resistance.		●	12 · 13	
	●							Top is high coefficient of friction, Bottom is high slip		●	12 · 13	
	●						●	Top is high coefficient of friction, Bottom is high slip		●	12 · 13	
		●	●		●			Quick and Easy splicing, abrasion-resistance	●		1 · 6 · 8 · 9 · 10	
●						●	●	Quick and Easy splicing, soft surface	●		1 · 6 · 8 · 9 · 10	
●	●			●	●	●	●	Easy splicing, moderate and strong grip	●		1 · 6 · 8 · 9 · 10	
●	●			●	●	●	●	Easy splicing, moderate and strong grip	●		1 · 6 · 8 · 9 · 10	
					●	●	●	Quick and Easy splicing, general use, high flexibility	●		1 · 6 · 8 · 9 · 10	
				●				Quick and Easy splicing, high flexibility, high tension	●		3 or 5 · 7 · 9 · 10	
●						●		Quick and Easy splicing, small pully	●		1 · 6 · 8 · 9 · 10	
							●	Quick and Easy splicing	●		1 · 6 · 8 · 9 · 10	
							●	Quick and Easy splicing	●		1 · 6 · 8 · 9 · 10	
				●	●			Quick and Easy splicing, high flexibility, high tension	●		2 or 4 · 7 · 9 · 10	
					●	●	●	Quick and Easy splicing, elastic type, thin type	●		1 · 6 · 8 · 9 · 10	
					●	●	●	Quick and Easy splicing, elastic type	●		1 · 6 · 8 · 9 · 10	
					●	●	●	Quick and Easy splicing, elastic type, high tear resistance	●		1 · 6 · 8 · 9 · 10	
					●	●	●	Quick and Easy splicing, elastic type, moderat slip	●		1 · 6 · 8 · 9 · 10	
					●	●		Quick and Easy splicing, elastic type, moderat slip	●		1 · 6 · 8 · 9 · 10	
					●	●		Quick and Easy splicing, elastic type, moderat slip	●		1 · 6 · 8 · 9 · 10	
					●	●		Quick and Easy splicing, elastic type, high tension	●		1 · 6 · 8 · 9 · 10	
							●	Slipping of the belt surface, non-stick surface, ink-repellent	●	●	—	
							●	Slipping of the belt surface, abrasion resistance	●	●	—	
							●	Stable and high coefficient of friction	●	●	—	
							●	General use	●	●	—	
							●	Strong grip due to coefficient of friction, slant conveyor	●	●	—	
							●	Slipping of the belt surface		●	—	
							●	Soft surface, slipping of the belt surface		●	—	

Notes: Minimum endless length is 400mm.(except SLA-8E14, LA-15E20, which are 1000mm)
 Please contact us for Minimum endless length of NittaBeltPoly and NLG
 Please contact us for NLG splicing tools