

Four types for a wide range of applications

Signode plastic strapping is manufactured for use with hand tools and high-production power strapping machines. All types have controlled surface properties that minimize tensioning effort, increase tension-transmission around corners and improve operating efficiency. All are split-resistant to increase

reliability in tools and power equipment.

Specifications for all varieties of Signode plastic strapping along with general methods of application for each type are detailed in the following tables.

Tenax Strapping

Tenax polyester strapping can be tensioned to a higher percentage of its break strength than any Tenax[®] other strapping material. It provides superior retained tension under hot. humid conditions and is more resistant to such environments than other plastic strapping. It also provides greater load stability during storage and shipping.

Tenax strap is strong, yet resilient enough to perform smoothly and reliably in power strapping machines and hand tools. And it's more tear and snag resistant than other plastic strapping.

Dymax Strapping

Dymax strapping is oriented during manufacturing, making it six times stronger than ordinary nylon. Ideal for use in cold room applications, such as food



Dymax[™]

processing, it resists tension decay and provides better reinforcement over long storage periods.

Dymax strapping stays tight. It conforms to changes in load size and shape without sacrificing its reinforcement capabilities. A smooth, lubricated finish helps ensure reliable feeding through feedwheel-type strapping equipment.

Contrax Strapping

Contrax polypropylene strapping is a good choice for light and medium-duty applications, including palletizing, unitizing, bundling, Contrax® carton closure and reinforcement. It resists splitting and has a smooth, uniform surface so it performs reliably in power strapping machines.

Contrax strapping has "elastic memory" which absorbs shock and keeps strapping tight during handling and shipping.

Empax Strapping

Empax waffled strapping is designed to perform in hot-knife sealing machines that require embossed strapping. It is a good choice for



Empax*

choice for many light and medium-duty applications. A variety of coil sizes are available for use in many power strapping machines.

Empax has "elastic memory" to keep straps tight, and features consistent width and gauge control to run smoothly in your strapping machine. It is an economical choice for many applications.



Plastic Strap Recycling Program

Signode is committed to being a leader in sustainability for the packaging industry. In addition to our ongoing development of higher strength, lower weight strapping to reduce raw material requirements, we also operate a strap reclamation program.

Our Closed Loop Recycling Program, aimed at limiting waste, collects our customers' used green PET strapping for use in the manufacture of new strapping. As a result of our recycling operation, Signode Tenax strapping contains more than 85% recycled content.

Plastic Strapping

																	SIGNODE		
Strap	Strap	Part	Strap	Size		rage igth*		rox. .ength		orox. Width		x. Coil le Dia.	Core Insid	Size e Dia.	Coil	Standard	Strap		
Name	Color	Number	inch	mm	lbs	N	ft	m	inch	mm	inch	mm	inch	mm	Weight Ibs	Coils/ Pallet	Application Method		
Tenax® She	et St	rapping																	
1612		2X2218			260	1 157	18,000	4 877							49	24			
1614S		2X2226			300	1 334	18,000	4 877	6	152	24	609	16	406	54	24	MH-BGU		
1616ELC		2X2015	3/8	9	425	1 890	14,500	4 420							57	12	MHB-TP12		
1616SC		2X2209			425	1 890	11,500	3 505	6	152	24	609	16	406	46.6	24	GCU SmartFlex MCD Power strapping machines		
1616X		2X2255			385	1 712	15,500	4 724	6	152	24	609	16	406	56.3	24	Pneumatic or battery powered friction		
1716LC		2X1488	-		475	2 110	11,550	3 520	-						55	24	weld tools Hand tools using metal seals		
718	Green	2X1749	7/16	10.5	600	2 670	9,600	2 926	6	152	24	609	16	406	55	24	•		
1718LC	i	2X1498			550	2 450	9,900	3 445							53	_			
1816		010379	1/2	12	500	2 220	10,500	3 200	6	152	24	609	16	406	51	12	MOD-710 Power strapping machines MH-VM Power strapping machines Pneumatic or battery powered friction		
1818 [†] 		010361 010355		12	800	2 669 3 560	9,000	2 743 1 980		102	24	003	10	400	51	. 12	weld tools Hand tools using metal seals		
Smooth Hi	gh-st	rength T	enax®	Stra	pping								l						
2030	Green	2X1365			1,100	4 890	4,600	1 404	6	152	24	609	16	406	48	24			
2040**†	Green	2X1369	1		1,400	6 227	4,000	1 219	6	152	24	609	16	406	49	24			
2040**	Green	2X2222		45.0	1,400	6 227	4,000	1 219	6	152	24	609	16	406	49	24			
2040HG	Green	2X1889	5/8	15.6	1,400	6 227	4,000	1 219	6	152	24	609	16	406	49	24			
2040J**	Green	2X1474]		1,400	6 227	12,500	3 810	7.5	190	24	609	16	406	153	4	Power strapping machines		
2040H**	Green	2X1460]		1,600	7 117	4,000	1 219	6	152	24	609	16	406	56	24	Pneumatic and battery powered		
2220**	Green	2X1888	3/4	19	1,900	8 451	3,000	914	6	152	24	609	16	406	52	24	hand tools Hand tools using metal seals up to		
2225**†	dieen	2X1847	3/4	19	2,500	11 120	2,400	732	6	152	24	609	16	406	52	24	5/8" (15.9 mm)		
2480**	Green	2X1851	1	25	2,200	11 120	2 ,200	671	6	152	24	609	16	406	50	24			
10050**	arcon	2X1842	<u> </u>		3,000	13 344	1,800	549	6	152	24	609	16	406	52	24			
2680**	Green	2X2207	1-1/4	32	3,200	14 234	1,800	549	6	152	24	609	16	406	52	24			
2625**		2X2208			4,000	17 792	1,500	457	6	152	24	609	16	406	54	24			
Embossed	Tena		yeste	r	1	I		1	1		Γ	Γ		1	1	Ι	Г		
3/8X017 EMB	Green	1935010L	3/8	9	360	1 601	13,500	4 115	6	152	24	609	16	406	50	24	Hand tools using buckles Pneumatic or battery powered		
3/8X020 EMB		1935002			470	2 091	12,500	3 801	6	152	24	609	16	406	50	24	friction-weld tools Hand tools designed specifically for u		
7/16X022 EMB	Green	2X2230	7/16	10.5	550	2 224	10,500	3 200	6	152	24	609	16	406	50	24	with Tenax		
/2X022 EMB	Green	2X2247	1/2	12	625	2 780	9,300	2 835	6	152	24	609	16	406	49	24	Hand tools using metal seals		
1/2X028 EMB	dieen	2X2228	1/2	12	800	3 336	7,200	2 195	6	152	24	609	16	406	50	24	Pneumatic or battery powered frictio weld tools		
5/8X040 AAR EMB	Green	2X2242	5/8	15.6	1,600	7 117	4,000	1 219	6	152	24	609	16	406	49.1	24	Hand tools using metal seals Pneumatic or battery powered		
040D AAR EMB																	friction-weld tools Hand tools designed specifically fo with Tenax		
High-stren	gth T	enax® En	nboss	sed –	polye	ster													
5/8X030 EMB		2X2232			1,100	4 893	4,600	1 402	6	152	24	609	16	406	42	24	Hand tools write and to the		
2040 EMB		2X2011 EMB			1,300	5 782	4,000	1 219	6	152	24	609	16	406	45	24	Hand tools using metal seals Pneumatic or battery powered frictio		
2040 EMB AAR	Green	2X2229**	5/8	15.6	1,400	6 227	4,000	1 219	6	152	24	609	16	406	46	24	weld tools		
2X2237**		2X2237**			1,600	7 117	4,000	1 219	6	152	24	812	16	406	49	24	Hand tools designed specifically for us with High-strength Tenax		
3/4X040 EMB		2X2233			1,900 8 4	8 451	3,000	914	6	152	24	609	16	406	46	24			

^{*} Strap break strengths are listed as averages. Always use American Society for Testing Materials (ASTM D-3950) minimum break strengths for package design/safety factor purposes. For proper strap selection, contact your Signode sales representative.

^{**} AAR printed

Plastic Strapping

SIGNODE

			Strap	Size		rage		rox.		orox.		x. Coil		Size				
Strap Name	Strap Color	Part Number	Wi	dth	Strer	ngth*	Coil L	ength.	Coil	Width	Outsid	de Dia.	Insid	e Dia.	Coil Weight	Standard Coils/	Strap Application	
			inch	mm	lbs	N	ft	m	inch	mm	inch	mm	inch	mm	lbs	Pallet	Method	
Dyma	x® Stra	apping — nyl	on									,						
304		025512	7/16	12.0	630	2 800	9,000	2 740	6	152	24	609	16	406	44.5	10	Pneumatic or battery powered	
306		025567	7/16	12.0	790	3 510	7,200	2 190	6	152	24	609	16	406	44.5	10	friction-weld tools	
502	Disale	025571	1/2	12.7	475	2 110	12,000	3 660	6	152	24	609	16	406	44.5	10	Hand tools using metal seals (509	
504	Black	025583	1/2	12.7	630	2 800	9,000	2 740	6	152	24	609	16	406	44.5	10	or 50DL Buclkes w/ 502 Dymax)	
506		025595	1/2	12.7	790	3 510	7,200	2 190	6	152	24	609	16	406	44.5	10	Pneumatic or battery powered	
508		025574	1/2	12.7	950	4 230	6,000	1 830	6	152	24	609	16	406	44.5	10	friction-weld tools	
Light	Duty C	Contrax																
LD213	Clear	2X1602	1/4	6	145	640	21,000	5 793	6	152	16	406	4	102	26	30	ML Power strapping machines	
LB 112	Clear	2X1844	0/10	_	100	445	20,000	0.140	7.0	100	10	400	7.0	000	00	00	LBX	
LB 112	Yellow	2X1870	3/16	5	100	445	30,000	9 146	7.8	198	16	406	7.8	200	28	36	PSM MOD-GPX	
LB 212	Clear	2X1845	1/4	6	150	667	24,000	7 317	7.8	198	16	406	7.8	200	27	36	LBX PSM	
LB 212	Yellow	2X1848					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										MOD-GPX	
LB 113	Clear	2X1601			120	530	25,000	7 622	7.8	198	16	406	7.8	200	28			
LB 113	Yellow	2X1709**	3/16	5	120	330	23,000	7 022	7.0	130	10	400	7.0	200	20	36	LB, SP & SureTyer PSM	
LB 116	Clear	2X1875			150	667	23,000	7 010	7.8	198	16	406	7.8	200	29			
SP 216	Clear	2X1606	1/4	6	200	890	18,000	5 488	7.8	198	16	406	7.8	200	27	36	LB & SureTyer	
SP 216	Yellow	2X1607	1/4	0	200	030	10,000	3 400	7.0	130	10	400	7.0	200	21	30	PSM	
Gene	ral Dut	ty Contrax														_		
HB 612	Clear	2X1738	3/8	9	225	1 000	16,000	4 878	7.8	198	16	406	7.8	7.8 200	29	36	НВХ	
HB 612	Black	2X1727	3/0	9	223	1 000	10,000	4 0 7 0	7.0	190	10	400	7.0	200	29	30	PSM	
HB 812	Clear	2X1885															HBX	
HB 812	Black	2X1886	1/2	12	300	1 330	12,000	3 659	7.8	198	16	406	7.8	200	27	36	PSM MOD-GPX	
SP 616	Clear	2X1608															HB, SP & SureTyer	
SP 616	Black	2X1609	3/8	9	300	1 330	12,000	3 659	7.8	198	16	406	7.8	200	27	36	PSM	
SP 719	Clear	2X1614															HB, SP & SureTyer	
SP 719	Black	2X1615	7/16	10.5	400	1 780	9,000	2 744	7.8	198	16	406	7.8	200	28	36	PSM	
SP 723	Clear	2X1616															HB, SP & SureTyer	
SP 723	Black	2X1617	7/16	10.5	500	2 220	7,500	2 287	7.8	198	16	406	7.8	200	28	36	PSM	
Heavy	/ Duty	Contrax		l	l			L				1						
HD 719	Clear	2X1610			400	1 780	12,000	3 659							39		MH-VM	
HD 723		2X1613	7/16	10.5	500	2 220	9,000	2 744	6	152	24	609	16	406	34	24	Pneumatic friction-weld tool	
HD 729	Black	2X1622			600	2 670	7,700	2 348	1						37		Battery powered tools	
																	Hand tools using metal seals	
816	Black	010366	1/2	12	500	2 220	8,000	2 439	6	152	24	609	16	406	32	24	Pneumatic or battery powered friction-weld tools	

^{*} Strap break strengths are listed as averages. Always use American Society for Testing Materials (ASTM D-3950) minimum break strengths for package design/safety factor purposes. For proper strap selection, contact your Signode sales representative.

^{**} Reflectors

Plastic Strapping

																MSI	GNODE°
Strap Name	Strap Color	Part Number	Strap Size		Average Strength*		Approx. Coil Length		Approx. Coil Width		Approx. Coil Outside Dia.		Core Size Inside Dia.		Coil Weight	Standard Coils/	Strap Application
Name			inch	mm	lbs	N	ft	m	inch	mm	inch	mm	inch	mm	lbs	Pallet	Method
Empax™ Strapping - polypropylene																	
5mm AMS 125	White	373.605.570 BP	0.181	5	127	564	12,000	3 659	7.5	191	16.7	424	8	203	22.9	30	Hot-Knife sealing power strapping machines that require
3/8" Superflex	Black	323.109.539	0.346	9	200	888	9,000	2 744	7.5	191	15.7	399	8	203	24.6	24	
3/8" AMS 250	White	M09250WH8	0.346	9	250	1 110	7,700	2 348	7.5	191	19.9	505	8	203	21.5	24	
3/8" AMS 250	White	M09250WH9	0.346	9	250	1 110	23,000	7,010	7.5	191	19.9	505	9	229	21.5	24	
1/2" AMS 350	White	M12350WH8	0.461	12	350	1 554	12,900	3,932	7.5	191	17.2	437	8	203	22	24	
1/2" AMS 350	White	M12350WH9	0.461	12	350	1 554	12,900	3,932	7.5	191	17.2	437	9	229	22	24	embossed strapping
1/2" AMS 500	White	M12501WH8	0.461	12	500	2 220	12,900	3,932	7.5	191	17.1	434	8	203	23.9	24	
1/2" AMS 500	Black	M12501WH6-7500	0.461	12	500	2 220	9,900	3,018	6	152	24.6	625	16	406	24.9	24	
1/2" AMS 600	Black	M12600BK6-7500	0.461	12	600	2 664	9,900	3,018	6	152	25.5	648	16	406	29.5	24	
Hand Grade 300 lb	Black	H12300BK6	0.472	12	300	1 332	7,200	2,195	6	152	24	610	16	406	22	24	
Hand Grade 500 lb	Black	H12500BK6	0.472	12	500	2 220	7,500	2,286	6	152	25	635	16	406	28	24	Battery, Pneumatic, Manual Hand Tools
Hand Grade 600 lb	Black	H12600BK6	0.472	12	600	2 664	7,500	2,286	6	152	25	635	16	406	33	24	

Seals & Buckles

Plastic joint types

Normal packaging rates for any application influence both the choice of strap and its joining methods. For low-volume, low-tension strapping of lightweight packages or bundles, Signode Steelock™ or Dylock™ buckles are probably the most economical method of joining strap, since they require no special sealing tool.

Seals for hand tool application

All types of 12 mm Signode plastic strapping as well as 16 mm and 19 mm High-Strength Tenax strapping can be sealed with hand tools using metal seals. Signode manufactures snap-on seals for manual sealers and Nestack seals for use in combination strapping tools with seal magazines.

Snap-on seals

Signode snap-on seals use a grit coating on the inside to increase friction between the strapping and the seals. Snap-on seals are placed on overlapping strap ends during or after strap tensioning. These seals generally reduce application time.

Nestack® seals

Nestack seals use steel teeth to grip the strapping. They are stacked and held together by plastic filaments. Designed for use in seal magazines of combination strapping tools, they are packaged in trays that can be conveniently placed at any strapping station.

Seal and joint strength

To ensure positive joint strength on all four types of plastic strapping, Signode steel seals and special sealers are used to form crimp joints. Crimp joints are formed by compressing the seal onto overlapping straps. The holding power of the joint is generated by squeezing the straps and the seal together.

Friction-weld® sealless joint

The Friction-weld® process, developed by Signode, positively joins plastic strapping without the use of seals or applied heat.

Seal Name	Part Number	Seal Type	Seal Length		Strap	Size	Tool Name	App Ship Wei	ping	Standard Package		
			inch	mm	inch	mm		lbs	kg			
Dylock [™] & Steelock [™] buckles												
50 DL	000470	Dylock	20.6	.885	1/2	12	DLT	23	10.4	5,000		
50 SL	000472	Steelock	23.8	.937	1/2	12	DLT	52	23.6	2,500		







Seal Name	Part Number	Seal Type	Seal I	ength.	Strap	Size	Tool Name	App Ship Wei	ping	Standard Package				
			inch	mm	inch	mm		lbs	kg					
Snap-on seals														
50 DYS	000465		3/4	19.0	1/2	12	D-504	40	18.1	3,100				
50 DY	000466	Grit -	1-1/8	28.3	1/2	12	D-504, D-506	42	19.1	2,500				
58 DY	2X1672		1-1/2	38.1	5/8	16	D-58	28	12.7	1,000				
34 DY	2X1795		2-1/8	55.9	3/4	19	M 380	45	20.4	1,000				





Seal Name	Part Number	Seal Type	Seal Length		Strap	Size	Tool Name	Approx. Shipping Weight		Standard Package		
			inch	mm	inch	mm		lbs	kg			
Nestack seals												
50 ASD	000531	Serrated	1-1/8	28.3	1/2	12	AMPT-12, AST	41	18.6	2,000		
58 AMT	2X1303	Serrateu	1-1/8	28.3	5/8	16	AMT-58	33	15.0	1,440		



