

# Tenax



### Highly Sustainable

Manufactured using post-consumer polyester material and can be recycled after use

### Unparalleled Performance

Manufactured with a proprietary process to reduce splitting for superior retained tension

### Maximum Versatility

Yields high break strengths making it ideal for countless packaging applications

### Operating Efficiency

Controlled surface properties minimize tensioning effort to extend tool and machine life



# Tenax

## High performance polyester strapping



### Tenax General Duty Technical Specifications

Type	Strap Size				Strength		Coil Size					
	Width		Gauge				Standard		Jumbo		Super Jumbo	
	Coil weight 25 kg (55 lbs)		Coil weight 70 kg (154 lbs)				Coil weight 115 kg (253 lbs)					
	Coils per pallet: 24		Coils per pallet: 6		Coils per pallet: 4							
mm	inch	mm	inch	N	lbs	m	ft	m	ft	m	ft	
1616	9	3/8	0.50	0.0195	2000	425	4420	14,500	N/A			
1716	10.5	7/16	0.52	0.0205	2220	500	3200	10,500				
1718	10.5	7/16	0.56	0.022	2450	550	3018	9,900				
1816	12	1/2	0.44	0.0175	2220	500	3200 <sup>1</sup>	10,500				
1818	12	1/2	0.52	0.0205	2670	600	2743 <sup>1</sup>	9,000				
1822	12	1/2	0.71	0.028	3560	800	1981 <sup>1</sup>	6,500				

### Tenax Heavy Duty Technical Specifications

2030 <sup>2</sup>	15.6	5/8	0.76	0.030	4900	1,100	1403	4,600	4400	14,435 <sup>3</sup>	7010	23,000
2040 <sup>2</sup>	15.6	5/8	0.89	0.035	6227	1,400	1219	4,000	3810	12,500	6096 <sup>4</sup> /7010 <sup>5</sup>	20,000 <sup>4</sup> /23,000 <sup>5</sup>
2040H <sup>2</sup>	15.6	5/8	1.02	0.040	7117	1,600	1219	4,000	3810	12,500 <sup>3</sup>	6096	20,000
2080 <sup>2,3</sup>	15.6	5/8	1.02	0.040	7100	1,596	1219	4,000	3300	10,826 <sup>3</sup>	N/A	
2220 <sup>2</sup>	19	3/4	1.02	0.040	8451	1,900	914	3,000	2743	9,000	4572	15,000
2225	19	3/4	1.27	0.050	11120	2,500	732	2,400	2195	7,200	3658	12,000
2480	25	1	1.02	0.040	11120	2,500	771	2,200	2012	6,600	N/A	
2680	32	1-1/4	1.02	0.040	14234	3,200	549	1,800	N/A		2700	8,858 <sup>3</sup>
2625	32	1-1/4	1.27	0.050	17792	4,000	457	1,500			2286	7,500

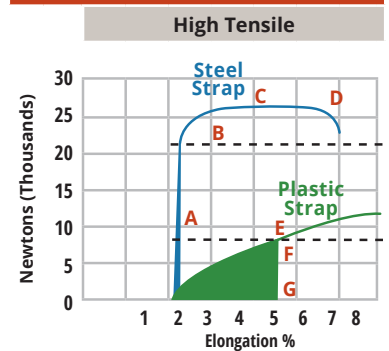
<sup>1</sup> Twelve coils per pallet, <sup>2</sup> Smooth and embossed, <sup>3</sup> Not in United States <sup>4</sup> Smooth <sup>5</sup> Embossed

### Tool and Head Compatibility\*

Operation	Manual		Pneumatic		Battery						Equipment		
	50DY	50AD	AMT	50AD AMT	Friction Weld								
Tension N	1000	1000	3500	1000	800	3600	1200	2000	2300	4000	2000	6000	9000
Tension lbs	225	225	787	225	180	809	270	450	517	899	450	1,349	2,023
1616													
1716													
1718					Tool: VFX								
1816	Tool: STD/DY	Tool: AST		Tool: AMPT			Tool: BXT3-13	Tool: BXT3-16				Head: MHC, MHB, MCD, MH-16	
1818													
1822													
2030			Tool: AMT										
2040													
2040H						Tool: VT							
2080													
2220												Head: AK200, Z20	
2225													
2480													
2680										Tool: BXT2-25/32			Head: Z32
2625													

\*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.

### Load & Elongation Curves



- A Work to break strap  
0.5 x 20800 x 1 =10400 Nmm
- B 20800 N Joint strength
- C 32 x 0.8 High tensile strength steel strap
- D 26000 N Break strength
- E Tenax 2225 - 8000 N Joint strength
- F Work to break strap  
0.5 x 8000 x 4 =16000 Nmm
- G 4% Elongation