

## Typical Properties\* of Teslin

\*Specifications are based on English units of measurement. Metric values are provided for convenience and are not to be considered precise values.

	SP 600	SP 700	SP 800	SP 1000/ SPID 1000	SP 1000 TS	SP 1000 Blue	IJ 1000 WP	Digital 1000	SP 1200	SP 1200 TS	SP 1400/ SPID 1400	SP 1400 TS	HD 1400	SP 1800	Reference
<b>Gauge (mils)</b>	5.7	7.0	8.0	10.0	10.0	10.0	10.0	10.5	12.0	12.0	14.0	14.0	14.0	18.0	ASTM D-374
<b>Tolerance (+/- mils)</b>	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.9	0.9	0.9	1.2	
<b>Gauge (microns)</b>	145	178	203	254	254	254	254	267	305	305	356	356	356	457	
<b>Tolerance (+/- microns)</b>	13.0	17.8	17.8	17.8	17.8	17.8	17.8	17.8	20.3	20.3	22.9	22.9	22.9	30.5	
<b>Yield (si/lb)</b>	7,288	6,102	5,242	4,210	4,210	4,210	4,210	3,847	3,414	3,414	2,888	2,888	2,426	1,909	ASTM D-3776
<b>Grammage (g/m2)</b>	97	115	134	167	167	167	167	183	206	206	243	243	290	368	
<b>Basis Weight</b>															
(oz/sq yd)	2.85	3.40	3.96	4.93	4.93	4.93	4.93	5.39	6.07	6.07	7.18	7.18	8.55	10.86	
(lbs/500 shts 25x38)	65	77	90	108	108	108	n/a	123	138	138	163	163	195	249	
<b>Master Roll Configuration</b>															
Mill Roll Length (ft)	7,000	6,000	5,250	5,000	5,000	5,000	n/a	5,000	3,750	3,750	3,300	3,300	3,300	2,400	
Mill Roll Length (m)	2,134	1,829	1,601	1,524	1,524	1,524	n/a	1,524	1,143	1,143	1,006	1,006	1,006	732	
Roll Weight (lbs)	657	673	685	812	812	812	n/a	812	751	751	781	781	930	860	
Roll Weight (kg)	298	305	311	368	368	368	n/a	368	341	341	354	354	422	390	
<b>Tensile Properties</b>															
<b>MD Tensile Strength</b>															
lbf/in	11.1	13.3	15.4	18.3	18.3	18.3	18.3	21.8	19.9	19.9	22.6	22.6	26.6	25.0	
N/cm	19.4	23.3	27.0	32.0	32.0	32.0	32.0	38.2	34.8	34.8	39.6	39.6	46.6	44.0	ASTM D-882
<b>CD Tensile Strength</b>															
lbf/in	5.3	6.3	7.3	8.6	8.6	8.6	8.6	10.6	9.7	9.7	11.2	11.2	12.1	12.0	
N/cm	9.3	11.0	12.8	15.1	15.1	15.1	15.1	18.6	17.0	17.0	19.6	19.6	21.2	21.0	
<b>Elmendorf Tear (g)</b>															
MD	77	100	135	198	198	198	198	274	239	239	292	292	311	416	ASTM D-1922
CD	tore to MD	tore to MD	tore to MD	tore to MD	tore to MD	tore to MD	tore to MD	tore to MD	tore to MD	tore to MD	tore to MD	tore to MD	tore to MD	tore to MD	
<b>Brittleness Temperature</b>															
Temperature	<-70°C	<-70°C	<-70°C	<-70°C	<-70°C	<-70°C	<-70°C	<-70°C	<-70°C	<-70°C	<-70°C	<-70°C	<-70°C	<-70°C	ASTM D-746
<b>Optical Properties</b>															
Brightness %	89	89	90	91	91	91	92	91	92	92	92	92	92	92	ISO-2470
Whiteness Index	80	80	80	80	80	95	80	88	83	83	85	85	82	80	ASTM E-313
Opacity (%)	90	92	94	96	96	96	96	95	98	98	98	98	99	99	ISO-2471
Transmission (%)	17	15	11	8	8	8	8	9	6	6	5	5	4	3	ASTM D-1003
<b>Sheffield Smoothness</b>															
Top	46	28	32	27	27	27	45	29	29	29	29	29	49	63	ASTM T-538
Bottom	74	70	74	56	56	56	73	52	52	52	52	52	99	97	

Standard master roll width is 57"/1447mm and 28"/711mm OD. 40"/1016mm OD rolls available upon request.  
 Custom widths up to 60"/1549mm available upon request. Digital 1000 is available in 12.5"/320mm and 20"/500mm width x 1400'/427m length rolls.  
 Master rolls are put up on 6"/152mm ID cores.