



Teslin[®] Synthetic Printing Sheet

DESCRIPTION:

Teslin[®] is a totally synthetic, white opaque, single layer micro-porous printing material that behaves more like paper than plastic. Available in sheets and rolls. Teslin optional coatings are available with pressure sensitive plus liner and a heat activated coating. Custom colors on special quote.

CHARACTERISTICS:

- Easily printed with water or solvent based inks using flexography, offset lithography, gravure and screen printing without pretreatment.
- Can be folded, sheeted, die cut, grommited, glued, and sewn.
- Excellent chemical and abrasion resistance and good temperature resistance.
- Microporous structure transmits moisture vapor but not liquid.
- Can be impregnated with fragrances for specialty applications.
- Excellent laminating medium.

TECHNICAL DATA:

PHYSICAL PROPERTIES	sp-700	sp-800	sp-1000	sp-1000 Digital	sp-1200	sp-1400	hd-1400	ASTM METHOD
GAUGE (mils) TOLERANCE (+/- mils)	7 0.7	8 0.7	10 0.7	10.5 0.7	12 0.8	14 0.9	14 1.0	D-374
GAUGE (µm) TOLERANCE (+/- µm)	178 17.8	203 17.8	254 17.8	279 17.8	305 20.3	356 22.9	356 25.4	
YIELD (si/lb)	6566	5764	4636	3850	3820	3156	2548	D-3776
BASIS WEIGHT +/- 5% (oz/sq yd) (lbs/500 shts 25 x38)	3.16 72	3.60 82	4.47 102	5.40 123	5.43 124	6.51 158	8.14 168	
MASTER ROLL CONFIGURATION MILL ROLL LENGTH (feet)* ROLL WEIGHT (lbs)	6000 625	5250 623	C	4200 748	3750 671	3300 708	3300 886	
TENSILE PROPERTIES TENSILE STRENGTH (lb/in) MD CD	10.5 5.3	11.8 6.0	12.0 6.2	19.0 10.0	13.3 7.5	15.3 8.7	19.6 11.2	D-822
ELMENDORF TEAR (grams) MD CD	75 tore to md	90 tore to md	92 tore to md	200 tore to md	102 tore to md	132 tore to md	210 tore to md	D-1922
BRITTLINESS TEMPERATURE	< -70°C	< -70°C	< -70°C	< -70°C	< -70°C	< -70°C	< -70°C	D-746
OPTICAL PROPERTIES BRIGHTNESS (%) WHITENESS INDEX (%) OPACITY (%) TRANSMISSION (%)	89 80 92 15	90 80 94 11	91 80 96 8	91 80 95 9	92 80 98 6	92 80 98 5	92 80 99 4	ISO-2470 E-313 ISO-2471 D-1003
SHEFFIELD SMOOTHNESS TOP BOTTOM	32 62	38 62	42 64	60 100	44 61	49 67	71 118	T-538

* Standard master roll is 57" wide and 28" OD; 40" OD rolls available upon request. Master rolls are put up on 6" ID cores.

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