

Kraft Unbleached SPX® Product Specifications



End Uses

SPX extensible high performance kraft paper has superior Tensile Energy Absorption (TEA) and balanced strength characteristics in both the machine and cross direction.

Even stronger than SPK, multiwall shipping sacks made from SPX use less paper in demanding applications for a variety of products such as cement and other construction materials. Typically used in pasted valve sacks.

Fibre Source

SPX is manufactured with a blend of virgin fibre from Black Spruce and Jack Pine. These northern boreal slow growing woods have exceptionally high strength potential. Canadian Kraft Paper (CKP) fibre is harvested and replanted in accordance with sustainable forest management practices under CSA, PEFC, and ISO 14001 environmental quality control standards.

Quality Systems

SPX quality is controlled with a comprehensive management system registered to ISO 9001 and incorporating elements of environmental (ISO 14001) and employee health and safety (OHAS 18001) management systems. CKP manufactures kraft papers in compliance with FDA as per 21 CFR 176.170 and 176.180, CONEG heavy metals and toxics, German recommendation XXXVI, 94/62/EEC certifications and is Kosher certified. This paper meets the requirements for packaging recoverable by composting and degradation ISO 17088 (2008) and EN 13432 2000. Certificates of compliance to all applicable regulatory requirements will be supplied upon request.

Typical Values SI (ISO 1924-3)

Properties	Units						Test Standard
Basis Weight	gsm		80	85	90	95	T410 os-68(1968)
Tensile	kN/m	MD	7.1	7.6	7.9	8.5	ISO 1924-3
		CD	5.1	5.5	5.7	5.9	
Tensile Index	Nm/g	MD	90	90	90	90	ISO 1924-3
		CD	65	65	65	63	
Stretch	%	MD	6.8	6.8	6.8	6.8	ISO 1924-3
		CD	8.9	8.9	8.9	8.9	
TEA	J/m ²	MD	260	280	295	315	ISO 1924-3
		CD	280	300	310	325	
TEA Index	J/g	MD	3.3	3.3	3.3	3.3	ISO 1924-3
		CD	3.5	3.5	3.5	3.4	
Tear	mN	MD	950	1050	1150	1190	T414 om-88(1988)
		CD	1050	1150	1250	1285	
Porosity	Sec/100cc		15	15	15	15	T460 om-88(1988)
Cobb	g/m ² /min		30	30	30	30	T441 om-90(1990)
Moisture	%		7.5	7.5	7.5	7.5	T412 om-90(1990)

Product specifications in effect as of July 1, 2018

MD – Machine Direction CD – Cross Direction

Paper Laboratory Conditions: Temperature = 23+/-1°C Relative Humidity = 50%+/-2%





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Typical Values Imperial (ISO 1924-3)

Properties	Units						Test Standard
Basis Weight	lbs/3000ft ²		50	52	55	58	T410 os-68(1968)
Tensile	lbs/in	MD	40.5	43.4	45.1	48.5	ISO 1924-3
		CD	29.1	31.4	32.5	33.7	
Tensile Index	Nm/g	MD	90	90	90	90	ISO 1924-3
		CD	65	65	65	63	
Stretch	%	MD	6.8	6.8	6.8	6.8	ISO 1924-3
		CD	8.9	8.9	8.9	8.9	
TEA	ft lb/ft ²	MD	17.8	19.2	20.2	21.6	ISO 1924-3
		CD	19.2	20.5	21.2	22.3	
TEA Index	J/g	MD	3.3	3.3	3.3	3.3	ISO 1924-3
		CD	3.5	3.5	3.5	3.4	
Tear	g	MD	95	105	115	120	T414 om-88(1988)
		CD	105	115	125	130	
Porosity	sec/100cc		15	15	15	15	T460 om-88(1988)
Cobb	g/m ² /min		30	30	30	30	T441 om-90(1990)
Moisture	%		7.5	7.5	7.5	7.5	T412 om-90(1990)

Product specifications in effect as of July 1, 2018

MD – Machine Direction CD – Cross Direction

Paper Laboratory Conditions: Temperature = 73.4+/-1.8°F Relative Humidity = 50%+/-2%



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