

SPX® - Vector

Technical Data Sheet



End Uses

SPX-Vector extensible high performance unbleached kraft paper has superior strength and stiffness with a high degree of air permeability.

SPX-Vector is used mainly for pneumatic filled sacks with no perforations. This paper is intended for single ply sack construction where the basis weight is higher and stiffness is increased. When used in this application, Vector will provide more economical and efficient sack construction and filling.

Fibre Source

SPX-Vector 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-Vector 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

Properties	Units			Test Method	
Basis Weight	gsm		120	130	ISO 536
Tensile	kN/m	MD	10.2	11.1	ISO 1924-3
		CD	7.8	8.4	
Tensile Index	Nm/g	MD	85	85	ISO 1924-3
		CD	65	65	
Stretch	%	MD	9.0	9.0	ISO 1924-3
		CD	9.0	9.0	
TEA	J/m ²	MD	460	490	ISO 1924-3
		CD	415	450	
TEA Index	J/g	MD	3.8	3.8	ISO 1924-3
		CD	3.5	3.5	
Tear	mN	MD	1560	1650	ISO 1974
		CD	1830	1900	
Porosity	Sec/100cc		12	12	ISO 5636-5
Cobb	g/m ² /min		30	30	ISO 535
Moisture	%		7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2019

MD – Machine Direction CD – Cross Direction

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



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Typical Values Imperial

Properties	Units				Test Method
Basis Weight	lbs/3000ft ²		74	80	ISO 536
Tensile	lbs/in	MD	58.2	63.4	ISO 1924-3
		CD	44.5	48.0	
Tensile Index	Nm/g	MD	85	85	ISO 1924-3
		CD	65	65	
Stretch	%	MD	9.0	9.0	ISO 1924-3
		CD	9.0	9.0	
TEA	ft lb/ft ²	MD	31.5	33.6	ISO 1924-3
		CD	28.4	30.8	
TEA Index	J/g	MD	3.8	3.8	ISO 1924-3
		CD	3.5	3.5	
Tear	g	MD	160	170	ISO 1974
		CD	185	195	
Porosity	sec/100cc		12	12	ISO 5636-5
Cobb	g/m ² /min		30	30	ISO 535
Moisture	%		7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2019

MD – Machine Direction CD – Cross Direction

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

