

Grade Profile DRYDEN SOFTWOOD

Dryden, Ontario Canada

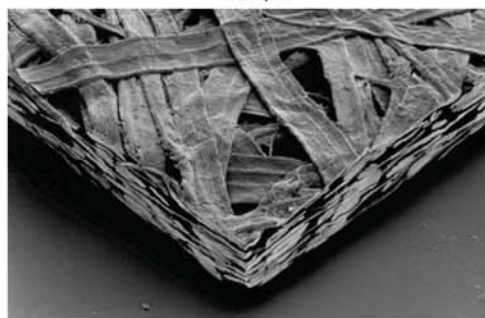
DRYDEN SOFTWOOD is an outstanding kraft pulp from Canada's boreal forest. Made from slow-grown black spruce and jack pine, the pulp exhibits an exceptional balance of good fiber length and low coarseness. It is ideal for papers requiring high tensile and tear strength, while providing surface uniformity, smoothness and opacity.

Typical Response to PFI Laboratory Refining

		Test Method	PFI Refined					
			Initial	650	610	500	400	300
Canadian Standard Freeness	mL	ISO 5267-2	670	650	610	500	400	300
Schopper-Riegler	SR	ISO 5267-1	15	16	17	22	31	42
PFI Revolutions	number	ISO 5264-2	0	300	920	2960	5010	7160
Strength								
Tensile (Breaking Length)	km	ISO 5270/1924	3.4	5.0	7.0	9.8	10.5	11.1
Tear Index (1 – ply)	mN•m ² /g	ISO 5270/1974	13.6	15.1	15.2	12.0	11.1	10.3
Burst Index	kPa•m ² /g	ISO 5270/2758	1.3	3.1	4.5	7.0	7.5	8.0
Fold (MIT)	double folds	ISO 5270/5626	40	360	870	1560	1780	1970
Internal Bond (Scott)	J/m ²	Tappi T569	100	140	200	340	400	460
Sheet Structure and Aesthetics								
Bulk	cm ³ /g	ISO 534	1.67	1.59	1.49	1.36	1.33	1.29
Density	g/cm ³		0.60	0.63	0.67	0.73	0.75	0.77
Roughness (Parker, H10)	µm	ISO 8791-4	6.6	6.2	5.8	5.2	6.4	5.5
Air Resistance (Gurley)	s/100 mL	ISO 5270/5636-5	2	3	4	17	65	120
Light Scattering Coefficient	m ² /kg	ISO 9416	32	29	25	20	19	18
Opacity	%	ISO 2471	72	70	67	62	60	58



← 100 µm →



Refined to Approximately 7 km Tensile

← 100 µm →

Typical Pulp Characteristics

	Test Method	
Brightness (ISO)*, %	ISO 3688/2470	90.0
Viscosity (0.5% CED)*, mPa•s	Tappi T230	20
Dirt mm ² /OD kg	ISO 5350-2	0.5
mm ² /m ²		0.4
Moisture content*, %	ISO 638	16

Chemical Properties

DCM Extractives, %	Tappi T204	0.02
Ash Content (525 °C), %	ISO 1762	0.15
Alkali Solubility (S ₁₈ number), %	Tappi T235	14

Fiber Analysis (OpTest FQA)

Average Length (LWAF), mm	ISO 16065-1	2.35
Coarseness, mg/100 m	ISO 23713	13.0
Population, million fibers/g	ISO 16065-1	6.4

Bale Characteristics

L x W x H, cm	84x72x46
Bale weight, kg	245

*These are NOT pulp mill specifications. *Mill Test, measured at time of production. 8/18/06*

Dryden, Ontario Canada
ISO 9001-2000 Registered Certificate #010624

