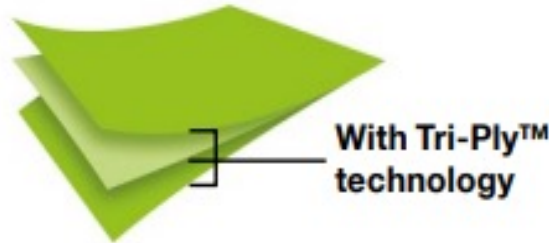




AvantForte Brown™

Brown Kraftliner

AvantForte Brown is a 3-layer structured, strong and durable kraftliner for corrugated packaging, made from 100% fresh fibres. It offers a superior solution for lightweight, yet extremely strong packaging which is suitable for direct food contact too.



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Typical values (are based on machine reel average values measured during last six month's period)

Typical properties, US											
Nominal basis weight, lbs / 1000 ft ²		17	20	24	26	28	31	35	41		
Caliper, in /1000		4,5	5.5	6.3	6.7	7.3	7.9	9.1	10.4		
SCT CD, lbs / in		12	14.3	17.1	18.8	20	22.8	25.7	29.7		
Bursting strength, psi		61	73	84	93	100	116	133	157		
Tensile stiffness CD, lbs / in		2341	2798	3255	3483	3826	4283	4797	5596		
Tensile stiffness MD, lbs / in		5596	6560	7650	8390	9020	10050	11530	13930		
Typical properties, Metric		Tolerance									Method
Typical basis weight , g/m ²	±3%	85	100	115	125	135	150	170	200	ISO 536	
Thickness, µm		115	140	160	170	185	200	230	265	ISO 534	
Moisture, avg, %, on-line	±1%	8	8	8	8	8	8	8	8		
SCT CD, kN/m		2.1	2.5	3	3.3	3,5	4	4.5	5.2	ISO 9895	
Bursting strength, kPa		420	500	580	640	690	800	920	1080	ISO 2758	
Tensile Stiffness CD, kN/m		410	490	570	610	670	750	840	980	ISO 1924-3	
Tensile stiffness MD, kN/m		980	1150	1340	1470	1580	1760	2020	2440	ISO 1924-3	
Roughness Sheffield , TS		279	279	279	279	300	300	332	332	ISO 8791	
Porosity Gurley, s		60	60	60	60	60	60	60	60	ISO 5636-5	
Cobb 60 TS, g/m ²		30	30	30	30	30	30	30	30	ISO 535	

Laboratory test climate 23°C/50% RH (According to ISO 187). All properties according to Oulu Mill average measurements from board machine production. Tolerances based upon 95 % confidence limits, apply to delivered machine reel average. Reel diameters: 49 in, 57 in. Reel core size 4 in.

Producing mill: Oulu, Finland

Certificates

Product safety FSSC22000
Quality management ISO 9001
Environmental management ISO 14001
Occupational health and safety ISO 45001
Energy management ISO 50001
FSC®-C127282 Chain of Custody
INS-PEFC-COC-208949 Chain of Custody

Stora Enso is committed to continuous quality improvement. Our products' specifications are reviewed, and if necessary, updated with the objective to reflect quality improvements. Please check the latest version from Stora Enso web site.



Key characteristics and main enduses

AvantForte Brown is a 100% fresh fiber based 3-layer structured kraftliner for highly demanding end-uses requiring high stacking strength, purity and premium printability such as corrugated packaging and e-commerce packaging. We recommend the low bases weights also as fluting for thin micro-corrugated constructions. AvantForte Brown has direct food contact approval; It may stand in direct contact with dry, fatty, acidic and moist foodstuffs up to 90°C. AvantForte Brown is a premium kraftliner for customers' toughest needs guaranteeing outstanding performance.

Ideal storage conditions: 23°C/50% RH

Paper should be stored in a dry, covered and ventilated warehouse. It is recommended that prior to use in production, paper should be stored some time in conditions similar to the conditions in the production hall. The required storage period depends mainly on the volume of paper reel, as well as the temperature difference between the warehouse and production hall.