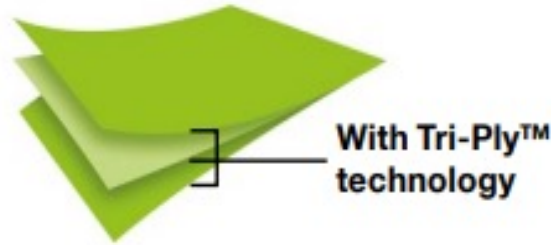


CarrEco Brown is 100% fresh fiber material based 3-layer structured packaging material for variety of bag applications where high tensile strength and high tear-resistance are required.



Issued: 09.2023
Cancels: 06.2023

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

Property / Unit						Standards
Grammage, g/m ² , 3%	85	100	115	125	135	ISO 536
Moisture, avg, %, on-line, ±1%	8	8	8	8	8	ISO 287
Tensile Strength MD, kN/m	11	13	15.0	16.5	17.5	ISO 1924-3
Tensile Strength CD, kN/m	6	7	8	9	10	ISO 1924-3
Tear Strength, MD, mN	990	1150	1340	1500	1700	ISO 1974
Tear Strength, CD, mN	990	1150	1340	1500	1700	ISO 1974
Stretch MD, %	1.8	1.9	1.9	1.9	1.9	ISO 1924-3
Stretch CD, %	5.2	5.1	5	5	5	ISO 1924-3
TEA MD, J/m ²	100	125	145	160	170	ISO 1924-3
TEA CD, J/m ²	200	230	270	300	320	ISO 1924-3
Thickness, μm	115	140	160	170	185	ISO-534
Bursting strength, kPa	420	500	580	640	690	ISO 2758
Roughness Bendtsen TS, ml/min	540	540	540	540	600	ISO 8791
Porosity Gurley, s	60	60	60	60	60	ISO 5636-5
Cobb 60 TS, g/m ²	30	30	30	30	30	ISO 535

Laboratory test climate 23°C/50% RH (According to ISO 187).
Reel diameters: 125, 145 cm. Reel core size 10 cm.

Producing mill: Oulu, Finland

Certificates

Quality management ISO 9001
Environmental management ISO 14001
Product safety FSC 22000
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

CarrEco Brown is a 3-layer structured unbleached uncoated board for shopping and takeaway bags that require high tensile and tear strength. Made from 100% fresh fibers from sustainably managed Nordic forests, it is also safe for direct food contact.

Available in grammages starting from 85 gsm, CarrEco Brown allows converters, brand owners and retailers to excel in varied segments within the bag market, such as retail and takeaway. CarrEco Brown meets all the requirements of brand owners and consumers when it comes to high performance and stiffness, purity, safety, and printability. We recommend CarrEco Brown for paper bags produced in one-step process directly from reel to bag.

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.