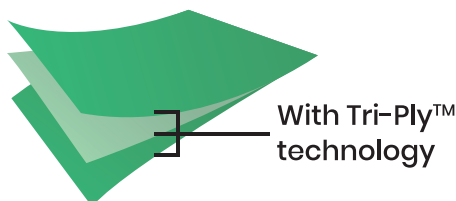


# AvantForte Brown™

## 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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### Technical specification, typical values (are based on machine reel average values measured during last six month's period)

| Property                        | Unit   | Tolerance |      |      |      |      |      |      |      |      |      | Standard    |
|---------------------------------|--------|-----------|------|------|------|------|------|------|------|------|------|-------------|
| Nominal basis weight            | g/m²   | ±3%       | 85   | 100  | 115  | 125  | 135  | 150  | 170  | 200  | 225  | ISO 536     |
| Moisture avg, on-line           | %      | ±1%       | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    |             |
| Thickness                       | µm     |           | 118  | 138  | 158  | 170  | 185  | 201  | 228  | 262  | 300  | ISO 534     |
| SCT CD                          | kN/m   |           | 2.1  | 2.5  | 3.0  | 3.3  | 3.5  | 4.0  | 4.5  | 5.3  | 5.8  | ISO 9895    |
| Bursting Strength               | kPa    |           | 420  | 500  | 580  | 640  | 690  | 800  | 920  | 1030 | 1100 | ISO 2758    |
| Tensile stiffness MD            | kN/m   |           | 1020 | 1200 | 1380 | 1470 | 1600 | 1850 | 2050 | 2400 | 2500 | ISO 1924-3  |
| Tensile stiffness CD            | kN/m   |           | 410  | 490  | 570  | 630  | 670  | 750  | 840  | 1000 | 1150 | ISO 1924-3  |
| Surface Roughness Bendtsen, Top | ml/min |           | 540  | 540  | 540  | 540  | 600  | 650  | 700  | 750  | 900  | ISO 8791-2  |
| Air permeability Gurley         | s      |           | 60   | 60   | 60   | 60   | 60   | 60   | 60   | 60   | 60   | ISO 5636-05 |
| Cobb <sub>60</sub> , Top        | g/m²   |           | 34   | 34   | 34   | 34   | 34   | 34   | 34   | 34   | 34   | ISO 535     |

All properties according to mill average measurements from board machine production.  
Laboratory test climate 23 °C/50 % RH (according to ISO 187).  
Tolerances based upon 95 % confidence limits, apply to delivered machine reel average.  
Reel diameters: 125, 145 cm. Reel core size 10 cm.

Producing mill: Oulu, Finland

### Certificates

Quality management ISO 9001  
Environmental management ISO 14001  
Food safety FSSC 22000  
Occupational health and safety ISO 45001  
Energy management ISO 50001  
FSC Chain of Custody: FSC® -C127282  
PEFC Chain of Custody: KIWAFI-PEFC-COC-208949

Stora Enso is committed to continuously optimize quality for the evolving needs of end users. Our products' specifications are reviewed, and if necessary, updated to reflect quality development. 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 in direct food contact and e-commerce. AvantForte Brown is a premium kraftliner for customers' toughest needs guaranteeing outstanding performance.

### Storage recommendations

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. To help maintain the quality and performance of our product, we recommend following the First-In, First-Out (FIFO) principle during storage. Additionally, we advise using the product within one year from the production date. If the recommended storage time is exceeded, the company cannot guarantee product performance. The recommended storage conditions are 50-55 % relative humidity and 20-23°C.

