



Testing services for the pulp and paper industry

Scion offers standard and specialised testing of pulp, paper and paperboard packaging. In addition, Scion's semi-commercial scale version of a modern high-yield pulp mill, with mechanical pulp refining, fibre segregation and an MDF blowline, enables development of traditional and new products and processes to be carried out in a production environment.

Fibre and paper testing

Mechanical pulping trials

- Super Masscolloider
- Sprout Waldron 12-inch refiner
- 52" Sylka pilot plant

Fibre properties

- Bauer McNett fibre classification
- Shive
- Freeness
- FQA

Physical paper testing

- Cobb
- Tear
- Tensile properties
- Burst
- Thickness, density, bulk, grammage
- Stiffness
- Bendtsen roughness and porosity
- Sheffield roughness
- Gurley porosity
- Short span compression

- Scott Plybond
- Folding endurance
- Zero span tensile
- Optical properties using L&W Elrepho
- Gloss

Furnish analysis

Printability

Building underlay testing

Including pliable and permeable membranes for control of external moisture to:

- NZS 2295
- AS/NZS 4200
- Table 23 of Acceptable Solutions E2/AS1 for Department of Building and Housing

Corrugated board and packaging testing

- Ring crush
- Flat crush, hardness

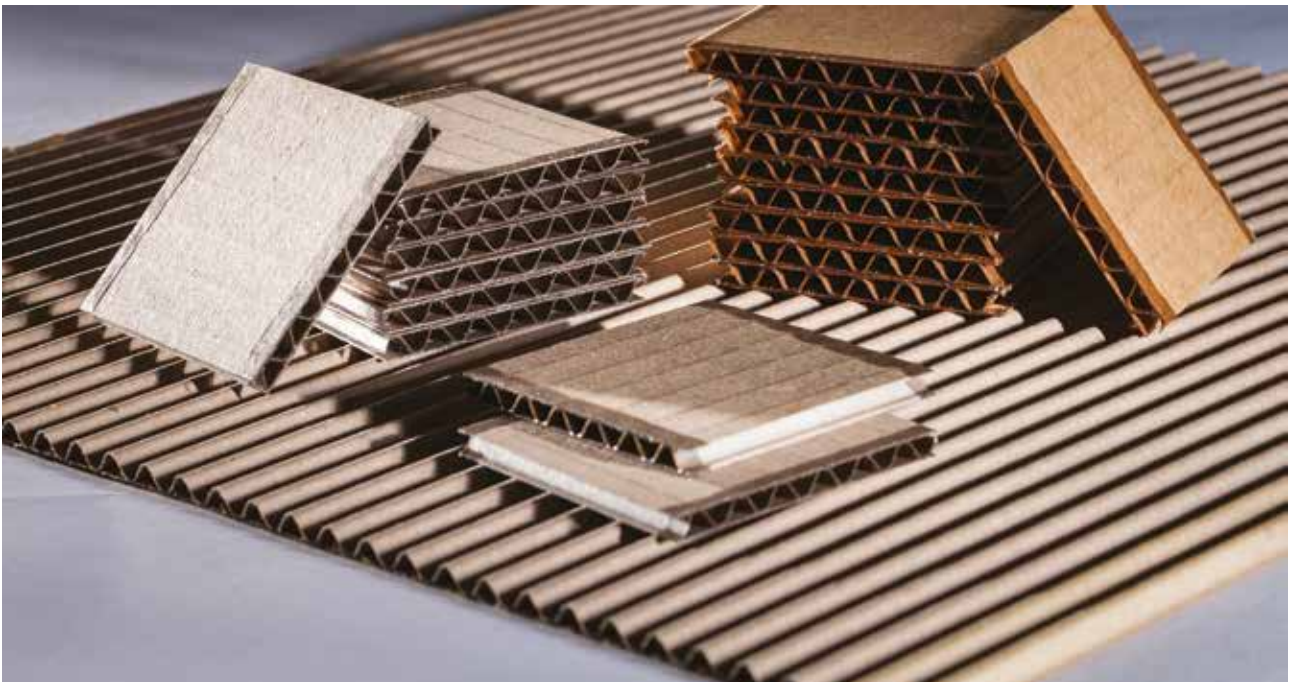
- Edge crush
- Bending stiffness
- Burst
- Dynamic Stiffness Tester – Chalmers DST
- Cornerboard and V-boards
- Scuff resistance

Laboratory-scale processes

- Chemical pulping trials
- Routine bleachability

We can test to the following standards:

- AS/NZS 1301 (Appita pulp and paper testing series)
- ISO
- TAPPI
- ASTM
- SCAN



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About Scion

Scion is the Crown research institute that specialises in research, science and technology development for forestry, wood and wood-derived materials, and other bio-material sectors.



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Prosperity from trees *Mai i te ngahere oranga*