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Environmental impact of protective packaging 2025 TNO study finds EPS in best-in-class solution

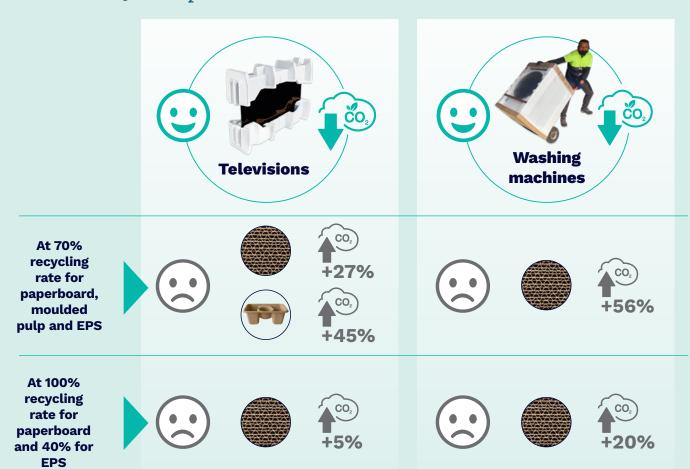
Background

A recent study by TNO* compared the **lifecycle performance of EPS, EPP, corrugated paperboard, and moulded pulp** in the packaging of TVs and washing machines.

The study showed that the true environmental impact of protective packagaging depends strongly on its protective performance, since damaged goods can cause very high environmental costs.

Why other materials are no suitable alternative to EPS

Relative life cycle CO₂ emissions of EPS versus other materials





EPS is lightweight, resilient, and recyclable in established systems.



EPS saves emissions and costs where avoiding damage is essential, particularly for protection of heavy & high value goods.



EPS outperforms
alternative materials in
nearly all investigated
environmental impact
categories as well



Performance based life cycle assessments are key to compare environmental benefits of different materials. Without these, decision makers risk regrettable substitution of best-inclass materials such as EPS packaging.