

COMPARATIVE ANALYSIS

PakTech QPCE-202-260-PCR vs. Coated Recycled Boxboard

100%
Post-Consumer
Recycled Resin



VS.



Coated
Recycled
Boxboard

The charts below reflect the environmental impact % increase of the boxboard carton.



CLIMATE CHANGE

(kg CO₂ eq) – effects from emission of global warming gases

PakTech

Boxboard +34.9%



OZONE DEPLETION

(kg C₂H₄ eq) – increased potential of photochemical smog events

PakTech

Boxboard +91.9%



CONTAMINATION of FRESH WATER

(kg PO₄₃- eq) - excessive biomass growth and decay in water

PakTech

Boxboard +179%



WATER RESOURCE DEPLETION

(m³ H₂O eq) – amount of water used and the water stress

PakTech

Boxboard +49.2%



MINERAL & FOSSIL DEPLETION

(Kg Sb eq) - additional energy required to extract mineral & fossil fuel resources

PakTech

Boxboard +596%



CUMULATIVE ENERGY DEMAND

(MJ LHV) – fossil, renewable, nuclear

PakTech

Boxboard +128%



SOLID WASTE to LANDFILL

(kg) - total of all solid waste generated

PakTech

Boxboard +113%

In all metrics analyzed, the PakTech Handle outperforms the boxboard carton

PIQET 4.0 Comparative Analysis prepared by Environmental Packaging International, April 2018. PIQET is a streamlined Life Cycle Assessment (LCA) tool used for environmental performance optimization of packaging designs. Charts are based on Life Cycle Impacts, per kg of product, per 1,000 4-Packs