

# COMPARATIVE ANALYSIS

PakTech 6PCE-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 CO<sub>2</sub> eq) – effects from emission of global warming gases

PakTech

Boxboard +8.1%



## OZONE DEPLETION

(kg C<sub>2</sub>H<sub>4</sub> eq) – increased potential of photochemical smog events

PakTech

Boxboard +54.1%



## CONTAMINATION of FRESH WATER

(kg PO<sub>4</sub>- eq) - excessive biomass growth and decay in water

PakTech

Boxboard +124%



## WATER RESOURCE DEPLETION

(m<sup>3</sup> H<sub>2</sub>O eq) – amount of water used and the water stress

PakTech

Boxboard +19.5%



## MINERAL & FOSSIL DEPLETION

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

PakTech

Boxboard +475%



## CUMULATIVE ENERGY DEMAND

(MJ LHV) – fossil, renewable, nuclear

PakTech

Boxboard +81.8%



## SOLID WASTE to LANDFILL

(kg) - total of all solid waste generated

PakTech

Boxboard +71.3%

**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 6-Packs*