

**Enkase**<sup>TM</sup>

# Comparing Enkase™ with Alternatives - Multilayer Packaging

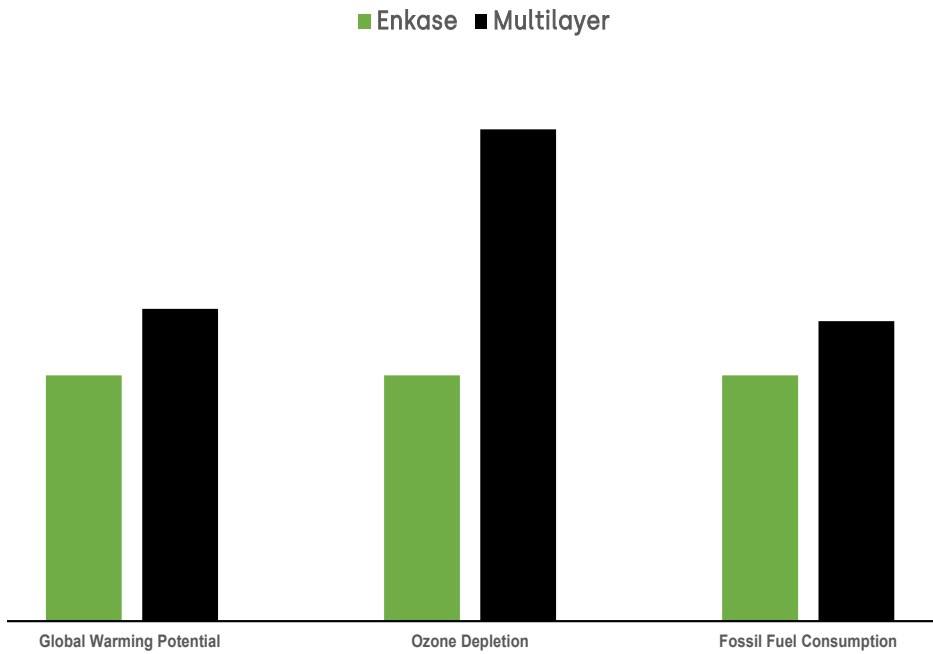
Enkase™ is a unique, permanent barrier technology that transforms conventional plastics into high performance packaging. Fully recyclable, Enkase™ technology has the lowest carbon footprint of any barrier packaging, making it the most environmentally responsible choice.

Multilayer packaging is an alternative option for barrier packaging and is used for storing and transporting products containing hydrocarbon solvents.

The following table lists some considerations when choosing a plastic barrier packaging technology:

	Enkase™	Multilayer	Attributes of Enkase™
<b>Quality consistency</b>	■■■■	■□□□	<ul style="list-style-type: none"> <li>High consistency within each container</li> <li>Barrier imparted inside and out</li> <li>No delamination or adhesion concerns</li> </ul>
<b>Barrier performance</b>	■■■■	■□□□	<ul style="list-style-type: none"> <li>Barrier can be tailored to needs</li> <li>Will not break upon dropping</li> <li>Works with the most aggressive chemistries</li> </ul>
<b>Design freedom</b>	■■■■	■□□□	<ul style="list-style-type: none"> <li>Any shape or size packaging</li> <li>Any shape spout, closures and other components</li> <li>Tubes, collapsible, standup pouches, drums, IBCs</li> <li>Enables complex container designs</li> <li>Enables lightweighting</li> </ul>
<b>Quality control</b>	■■■■	■□□□	<ul style="list-style-type: none"> <li>100% quality control on every batch</li> <li>Full lot/batch traceability</li> <li>40+ years of reliable performance</li> </ul>
<b>Environmental impact</b>	■■■■	■□□□	<ul style="list-style-type: none"> <li>Lowest Global Warming Potential and fossil fuel consumption</li> <li>Zero water, zero emissions, zero waste process</li> <li>100% recyclable</li> </ul>
<b>Productivity</b>	■■■■	■□□□	<ul style="list-style-type: none"> <li>High to low volume production</li> <li>No capital investment</li> <li>Multiple locations to ensure supply</li> <li>Product development support</li> <li>No royalty payment requirements</li> </ul>

■■■■ Excellent    ■■■□ Good    ■□□□ OK    □□□□ Poor



**Graph 1: Environmental impact comparison of Enkase™ and Multilayer**

The biggest advantage of Enkase is the lower environmental footprint and its 100% recyclability.

Enkase™ is pledged to the **Ellen MacArthur Foundations' New Plastics Economy Global Commitment** and is recognized by **Suez Circpack®**, the **Association of Plastics Recyclers** and **Plastic Recyclers Europe's RecyClass** as fully recyclable.



The Association of Plastic Recyclers

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