

Comparing Enkase™ with Alternatives - Plasma Chemical Vapor Deposition

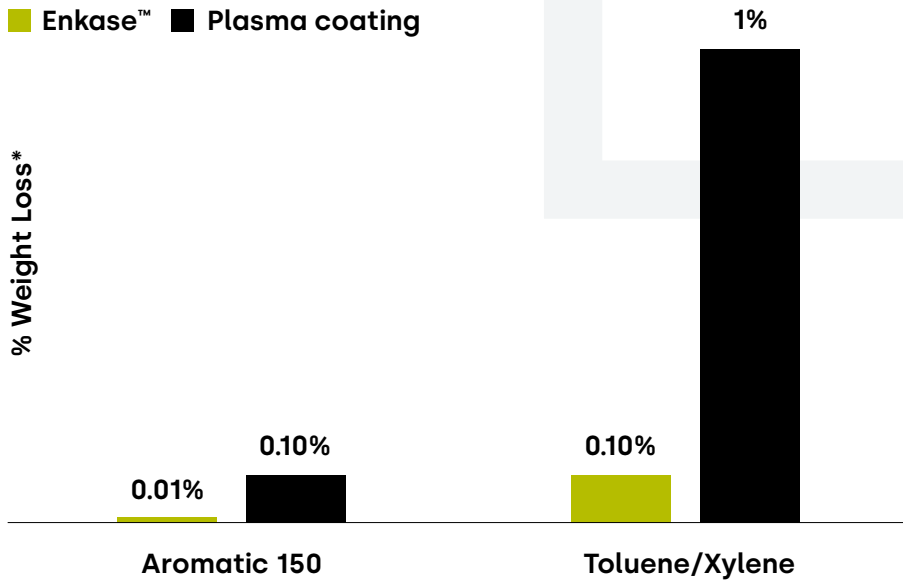
Enkase™ is a unique, permanent and recyclable barrier technology that transforms conventional plastics into high performance packaging. Enkase™ technology has the lowest carbon footprint of any barrier packaging, making it the most environmentally responsible choice.

Plasma chemical vapor deposition is an alternative technology for barrier plastic packaging. Plasma coating utilizes a refrigerant gas, R134a, and acetylene to make highly reactive radicals that create a thin barrier layer on the inside of a container.

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

	Enkase™	Plasma coating	Attributes of Enkase™
Quality consistency	■■■■	■□□□	<ul style="list-style-type: none"> High consistency within each container Barrier imparted inside and out No discoloration of container
Barrier performance	■■■■	■□□□	<ul style="list-style-type: none"> Up to 10x the barrier performance of plasma Tunable barrier performance Not impacted by additives in plastics Works with the most aggressive chemistries
Design freedom	■■■■	■□□□	<ul style="list-style-type: none"> Any shape or size packaging Any shape spout, closures and other components Tubes, collapsible, standup pouches, drums, IBCs Enables complex container designs Enables lightweighting
Quality control	■■■■	■□□□	<ul style="list-style-type: none"> 100% quality control on every batch Full lot/batch traceability 40+ years of reliable performance
Environmental impact	■■■■	■□□□	<ul style="list-style-type: none"> Lowest GWP and fossil fuel consumption Zero water, zero waste, zero emissions Does not use banned substances Does not use any PFAS substances
Productivity	■■■■□	■□□□	<ul style="list-style-type: none"> High to low volume production No capital investment Multiple redundancies to ensure supply Product development support No royalty payment requirements

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



*At 50°C for 28 days, per DoT method 49CFR173.24, Appendix B

Graph 1: Barrier performance comparison of Enkase™ and plasma coating

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.



Global
Commitment



RecyClass



The Association of
Plastic Recyclers

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