



# EcoStage GB-XA

## Oxygen Barrier Coating for Sustainable Food Preservation

Mono-Material Packaging • Package Lightweighting • Food Safety & Preservation

**EcoStage GB-XA** oxygen barrier coatings are formulated to address food safety and preservation issues as well as improvements in sustainability and recycling. These high-performance coatings allow for mono-material packaging to replace multi-layer packaging for certain food applications making the package easier to recycle. They offer an alternative to expensive barrier films while extending shelf life and reducing food waste.

### Advantages of EcoStage GB-XA

The high-performance barrier coatings provide users with cost effective, durable, and sustainable films that support mono-material and light-weight packaging trends by creating a flexible gas barrier layer that can be easily overprinted with inks and laminated to a variety of secondary films.

- Mono-material packaging improves recyclability and package lightweighting
- Excellent oxygen barrier extends shelf life and reduces food waste
- Alternative to expensive barrier films lowers applied costs
- Replacement of PVdC eliminates chlorinated compounds
- Improves flex crack resistance compared to oxide/metalized substrates
- Transparent, durable, chlorine-free, and metal-free

[INXEcostage.com](http://INXEcostage.com)

To talk with a specialist, email [info@inxintl.com](mailto:info@inxintl.com)

### 2030 Agenda for Sustainable Development

Ecostage GB-XA has sustainability benefits that align with the goals of the United Nations.



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## Low Oxygen Transmission Rate (OTR) Preserves Food

**Ecostage GB-XA** drastically improves the oxygen transmission rate of flexible packaging materials and offers a viable alternative to existing film options. The coatings provide excellent barrier performance on polyester and polyolefin films with dry film weights as low as 0.6 g/m<sup>2</sup> (dry).

	FILM CONFIGURATION	OXYGEN TRANSMISSION RATE : OTR (cc/m <sup>2</sup> - day - atm)	
		0%RH	70%RH
General film packaging	OPP/CPP	> 400	> 400
	PET/CPP	108	92
	ONY/CPP	25	29
	OPP/VM-CPP	16	16
Mono material	OPP/Primer/Ecostage GB-XA/CPP	0.7	2.3

**(Test condition)**

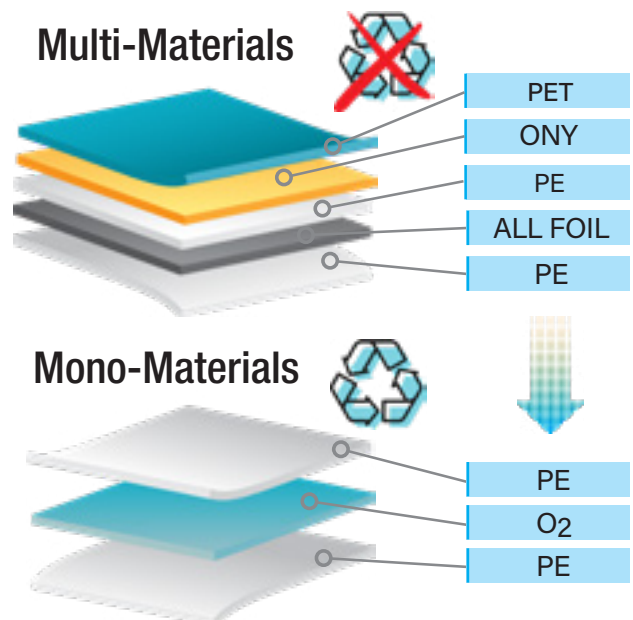
Film thickness: OPP 25 um, PET 12 um, ONY 15 um, CPP 25 um, VM-CPP 25 um

Dry coating weight: Ecostage GB-XA: 0.6 g/m<sup>2</sup>, primer: 0.1 g/m<sup>2</sup>

\*Above OTR values are actual measured values, not guaranteed values.

## Mono-Material Packaging Improves Recycling and Package Lightweighting

Ecostage GB-XA can be used in mono-material structures and does not impact recycling like EVOH PE coextruded material. In a typical example, a multi-material laminate composed of PET/PE can be replaced with a barrier-coated OPP/CPP or OPE/PE structure. This new structure makes recycling easier by using similar materials while still maintaining oxygen barrier properties of other multi-material structures.



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