

Biodegradable Low Density Polyethylene (ECLE)

ECLE is a biodegradable*, low density polyethylene that contains an additive to precipitate material breakdown. The shelf-life and performance characteristics of the poly, such as strength, clarity and printability, remain intact. Biodegradation only occurs when in contact with other biodegrading material, such as the conditions found in landfills, home and commercial composting.

ECLE bags biodegrade in both aerobic (with the presence of free oxygen) and anaerobic (without the presence of free oxygen) conditions. ECLE is also infinitely recyclable.

The material is available in clear (ECLE), white (EWHT), clear-white-combination (ECWT) and green (EGCL).

Genuine Autobag® bags-on-a-roll and SidePouch® bags-in-a-box are system-matched and guaranteed to run on Automated Packaging Systems' equipment.

Technical Information

Compliances	FDA 21 CFR 177.1350 (ECLE only) FDA 21 CFR 177.1520 (ECLE only) MIL-DTL-117H TYPE III CLASS B (ST only)
Press Printing	Yes with restrictions
Imprinting	Yes
Trim Seal	Yes
Bag Mil Thickness	1.5, 2.0, 3.0, 4.0
Bag Configurations	Autobag; SidePouch with restrictions

Performance Data:	U/M	1.5/LD	2.0/SD	3.0/ET	4.0/ST	ASTM
Haze	%	7.54	8.94	11.9	15.4	D-1003
Puncture Resistance (Dart)	grams	130	165	265	460	D-1709
Tensile Strength MD	psi	4155	3843	3532	3154	D-882A
Tensile Strength TD	psi	3109	3071	2966	2752	D-882A
Elongation MD	%	383	445	621	652	D-882A
Elongation TD	%	624	648	755	756	D-882A
Elmendorf Tear MD	grams	229	297	529	646	D-1922
Elmendorf Tear TD	grams	807	947	1302	1609	D-1922
OTR	cc/100in ² /day	292	249	161	105	D-3985
MVTR	g/100in ² /day	0.6	0.48	0.31	0.22	F-1249

Formulations

- ECLE
- EWHT
- ECWT
- EGCL



Features & Benefits

- Additive assists in biodegradation
- Material performance remains intact
- Optional green tint for end-user awareness



Chart reflects nominal test data values. Actual results may fluctuate due to inherent process variation. Test data and mil thickness reflect ECLE material only. Certain minimum purchase volumes may apply.

*49.28% biodegradation in 900 days under **non-typical** conditions. No evidence of further biodegradation. California currently prohibits labeling any plastic product as biodegradable.

888-AUTOBAG | info@autobag.com | autobag.com

Automated Packaging Systems, Inc. 10175 Philipp Parkway, Streetsboro, Ohio 44241

Patent(s): www.autobag.com/patents

© July 2018 Automated Packaging Systems, Inc. Features, Options & Technical Specifications subject to change. The use of the ® or ™ symbol indicates that Automated Packaging Systems, Inc. has registered or is otherwise claiming trademark rights in the United States. These marks may also be registered in other countries and common law rights may apply in countries where such rights are recognized.