

Biodegradable Low Density Polyethylene (ECLE)

ECLE is a biodegradable*, low density polyethylene that is ideal for many industrial and retail applications, offering a cost-effective and reliable alternative to other biodegradable film products. Material performance properties and bag shelf life remain intact, as 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 material is also completely recyclable and ecologically safe.

Genuine Autobag® bags-on-a-roll and SidePouch® bags-in-a-box are system-matched and guaranteed to run on all Automated Packaging Systems' bagging 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
Imprinting	Yes
Trim Seal	Yes
Mil Thickness	1.5, 2.0, 3.0, 4.0
Configuration	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

- Fully biodegradable
- Recyclable and ecologically safe
- Good clarity and strength
- Optional resealable tape available
- 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.

*The rate and time for biodegradation varies depending on exposure conditions. The additive used in ECLE has been tested by independent laboratories in accordance with standard test methods approved by ASTM, ISO and other such standardization bodies, and has been approved for marketing as biodegradable and safe for the environment. California currently prohibits labeling and plastic product as biodegradable.

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

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