

Biodegradable DuraClear 2000™ Linear Low Density Polyethylene (EDC2)

EDC2 is a biodegradable*, linear low density polyethylene that contains an additive to precipitate material breakdown. As a linear low density polyethylene film, EDC2 offers more strength than standard low density poly, resulting in lighter gauge requirements for equivalent performance.

The additive used in EDC2 does not affect shelf-life or any other performance characteristics, such as strength, clarity and printability. Biodegradation only occurs when in contact with other biodegrading material, such as the conditions found in landfills, home and commercial composting. EDC2 bags biodegrade in both aerobic (with the presence of free oxygen) and anaerobic (without the presence of free oxygen) conditions. EDC2 is also infinitely recyclable.

The material is available in clear (EDC2), white (EWDC), clear-white-combination (ECWD) and green (EGDC).

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

Technical Information

Compliances	FDA 21 CFR 177.1350 FDA 21 CFR 177.1520 MIL-DTL-117H TYPE III CLASS B (MT only)
Press Printing	Yes
Imprinting	Yes
Trim Seal	Yes
Bag Mil Thickness	1.09, 1.32, 1.54, 2.0, 2.8, 3.9
Bag Configurations	Autobag; SidePouch with restrictions

Performance Data:	U/M	1.09/UL	1.32/LD	1.54/SD	2.0/ET	2.8/ST	3.9/MT	ASTM
Haze	%	10.1	10.4	10.7	14.2	18.2	18.9	D-1003
Puncture Resistance (Dart)	grams	195	210	233	310	395	540	D-1709
Tensile Strength MD	psi	4960	4669	4631	4332	4303	4179	D-882A
Tensile Strength TD	psi	3744	3731	3700	3664	3554	3479	D-882A
Elongation MD	%	507	536	540	545	613	723	D-882A
Elongation TD	%	611	619	634	655	674	731	D-882A
Elmendorf Tear MD	grams	269	315	374	585	988	1508	D-1922
Elmendorf Tear TD	grams	865	926	939	1162	1418	2094	D-1922
OTR	cc/100in ² /day	389	349	324	224	172	110	D-3985
MVTR	g/100in ² /day	0.719	0.70	0.616	0.443	0.326	0.214	F-1249

Formulations

- EDC2
- EWDC
- ECWD
- EGDC



Features & Benefits

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



Chart reflects nominal test data values. Actual results may fluctuate due to inherent process variation. Test data and mil thickness reflect EDC2 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.

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

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