

DuraClear™ 2000 Biodegradable Enhanced Linear Low Density Polyethylene (EDC2)

Biodegradable* DuraClear 2000 (EDC2) is a strong, durable material that is ideal for multiple 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.


EDC2 bags biodegrade in both aerobic (with the presence of free oxygen) and anaerobic (without the presence of free oxygen) conditions. EDC2 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 FDA 21 CFR 177.1520 MIL-DTL-117H, TYPE III CLASS B (MT ONLY)
Press Printing	Yes
Imprinting	Yes
Trim Seal	Yes
Mil Thickness	1.09, 1.32, 1.54, 2.0, 2.8, 3.9
Configuration	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

 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.

*The rate and time for biodegradation varies depending on exposure conditions. The additive used in EDC2 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.

Formulations

- EDC2
- EWDC
- ECWD
- EGDC



Features & Benefits

- Fully biodegradable
- Recyclable and ecologically safe
- Good clarity and strength
- Optional green tint for end-user awareness



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

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