



Biodegradable Polyolefin Shrink Film

U.S. Packaging & Wrapping LLC is proud to announce the introduction of ECO-OLEFIN biodegradable polyolefin shrink film with the following properties:

Fully biodegradable in 9 months to 5 years

- Fully biodegradable wherever disposed of, and where other materials are biodegrading (anaerobically and aerobically)
 - ► In Landfills
 - In Compost
 - Buried in the ground or littered
 - Agricultural and erosion control settings
 - Fully recyclable
- Does not use heat, light, or stress to break down
- Does not require special handling
- Does not contain heavy metals
- Maintain the same desired characteristics as traditional, non-degradable, polyolefin shrink films
- Available in same sizes, gauges and roll lengths as standard polyolefin shrink films





Eco-olefin AP-XEC Biodegradable Cross-Linked Polyolefin Shrink Film

Eco-olefin AP-XEC: A NEW and innovative biodegradable polyolefin shrink film made with patented additives that allow the film to break down within 5 years, as evidenced by laboratory reports provided by the additive supplier. The film decomposes in the presence of bacteria and microorganisms under natural conditions, producing water, CO2, and biomass.

TYPICAL PROPERTIES	UNITS	VALUE	VALUE	VALUE	VALUE	ASTM TEST
GAUGE		50	60	75	100	
DENSITY	gm/cc	0.92	0.92	0.92	0.92	D-1505
YIELD	sq.in./lb	60,000	50,000	40,000	30,000	
ROLL WEIGHT	lbs./in	2.1	2.1	2.1	2.1	
HAZE	%	2.2	2.3	2.5	2.7	D-1003
GLOSS,% @ 45 DEGREES	%	135	130	130	125	D-2457
COEFFICIENT OF FRICTION	film/film	0.26	0.26	0.23	0.2	D-1894
SHRINK AIR TEMPERATURE	fahrenheit	216F				
FREE SHRINK @250 F	% area	65	65	65	65	D-1204
SHRINK FORCE	g/in	95	110	130	160	D-2838
MODULUS OF ELASTICITY	kpsi	37	37	38	39	D-882B
TENSILE STRENGTH	kpsi	13	13	14	14	D-882B
ELONGATION AT BREAK	%	120	125	130	135	D-882B
WATER VAPOR TRANSMISSION RATE	ge/100in/24h	2.3	2.5	2	1.5	F-1249
OXYGEN TRANSMISSION RATE	cc/100on/24h	1000	900	800	600	D-3985
CO2 cc/100in/24 hr.	* * *	2500	2400	2200	1950	D1434
SINGLEWOUND ROLL LENGTHS	feet per roll	10,500	8,750	7,000	5,250	MM
CENTERFOLD ROLL LENGTHS	feet per roll	5,250	4,375	3,500	2,625	
AVAILABILITY					Y L	
SWS & CF	inches	Custom-produced, 2000 lbs. minimum per size & gauge				

The above values are based on test data believed to be reliable. This data, however, is merely a guide and should not take the place of thorough testing for each intended use.

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