



Ecolene AP-XEC Biodegradable Cross-Linked Polyolefin Shrink Film

Ecolene® 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
CO ₂ cc/100in/24 hr.		2500	2400	2200	1950	D1434
SINGLEWOUND ROLL LENGTHS	feet per roll	10,500	8,750	7,000	5,250	
CENTERFOLD ROLL LENGTHS	feet per roll	5,250	4,375	3,500	2,625	
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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The Buyer assumes the sole responsibility of determining the suitability of the product for the uses and applications contemplated by Buyer and others. Furthermore, the Buyer assumes all risk and liabilities for results obtained by the use of the product, whether used singularly or in combination with other material, except those relating solely to the use of the product not conforming to the contracted specifications, which non-conformity is not discoverable by Buyer or others. Seller makes no warranty or guarantee of results obtained since the condition of the use and application by Buyer and others are beyond Seller's control.