



TYPICAL PROPERTIES OF 7000 Acetate *EnviroSafe*

A biodegradable cast cellulose film with excellent clarity, scratch, age-brittleness and yellowing resistance. Excellent dimensional stability. Popular for use with printing, foil stamping, tamper-resistant and graphic arts applications as it has a naturally high surface energy. Gas permeable, making it a popular choice where breathability is required.

Properties	Units	ASTM	Typical Values		
Thickness			Up to 100 microns	125 - 380 microns	
Specific Gravity			1.31	1.30	
Equilibrium moisture content	% (23C and 50%RH)		1.8	1.8	
Surface Energy	dyne cm ⁻¹		38 - 42	38 - 42	
Transparency	%	D1476	91	89.1	
Gloss	%	D523, BS 2782 520A	20°	138	137
			60°	146	143
			85°	120	116
Haze	%	D1003, BS 2782 521A	0.8	2.0	
Refractive Index			1.485		
Tensile Strength	Nmm ⁻²	D882	80 - 100	80 - 100	
Elongation at Break	%	D882	25 - 45	20 - 40	
E-Modulus	Nmm ⁻²	D882	2800	2800	
Tear Initiation	N	D1938	0.095		
Tear Propagation	N	D1938	0.071		
Burst Strength	psi	BS 4768	72.5		
Softening Temperature	C		137	127	
Glass Transition Temperature	C		120		
Moisture Vapor Transmission gm ⁻² day ⁻¹	25C, 100% RH and 75µ P20		685		
Surface Resistivity	Ωsq ⁻¹		1.6 x 10 ¹³		
Dielectric Breakdown	kVmm ⁻¹		150		

The information herein, is to the best of our knowledge, true, and accurate. However, since conditions of use are beyond our control, all recommendations or suggestions are presented without guarantee or responsibility on our part. All property values are developed according to ASTM.