

## TYPICAL PROPERTIES OF **7000 Acetate**

*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	Typical Values				ASTM
Thickness		gauge $\mu$	95 24	118 30	197 50	295 75	D6988
Finish		—	gloss/gloss	gloss/gloss	gloss/gloss	gloss/gloss	
Specific Gravity		—	1.32	1.32	1.32	1.32	
Equilibrium Moisture Content (23°C, 50% RH)		%	Circa 2%	Circa 2%	Circa 2%	Circa 2%	
Surface Energy		dyne/cm <sup>-1</sup>	38-42	38-42	38-42	38-42	D2578
Areal Density		g/m <sup>2</sup>	31.68	39.6	66.00	99.00	
Yield		in <sup>2</sup> /lb m <sup>2</sup> /kg	22,421 31.57	18,051 25.25	10,812 15.15	7,220 10.10	D4321
Dynamic Friction Coefficient			0.4 – 0.6	0.4 – 0.6	0.4 – 0.6	0.4 – 0.6	
Transparency		%	92.7	92.4	91.4	91.5	D1476
Gloss	20°	%	137.0	136.3	138.3	136.9	D523 BS2782 520A
	60°	%	145.6	146.5	146.1	144.7	
	85°	%	122.4	120.4	119.8	122.2	
Haze		%	0.7	0.8	0.8	1.1	D1003 BS2782 521A
Refractive Index		—	1.485	1.485	1.485	1.485	
Tensile Strength	MD	Nmm <sup>-2</sup>	80-100	80-100	80-100	80-100	D882
Elongation at Break	MD	%	25-45	25-45	25-45	25-45	D882
E-Modulus		Nmm <sup>-2</sup>	2000-2500	2000-2500	2000-2500	2000-2500	D882
Tear Initiation	MD	N	0.05	0.63	0.107	0.107	D1938
Tear Propagation	MD	N	0.031	0.039	0.087	0.087	D1938
Moisture Vapor Transmission							
MVTR (25°C, 75% RH)		gm <sup>-2</sup> day <sup>-1</sup>	1279	1065	639	443	
MVTR (38°C, 90% RH)		gm <sup>-2</sup> day <sup>-1</sup>	1890	1708	n/a	761	
OTR (23°C, 0% RH)		ccm <sup>-2</sup> day <sup>-1</sup>	n/a	n/a	880	n/a	
Surface Resistivity 50% RH		$\Omega$ m <sup>-2</sup>	5.1x10 <sup>-13</sup>	5.1x10 <sup>-13</sup>	5.1x10 <sup>-13</sup>	5.1x10 <sup>-13</sup>	
Dielectric Breakdown		kVmm <sup>-1</sup>	15	15	15	15	
Food Contact Approved		—	Yes	Yes	Yes	Yes	
Din Certco EN 13432 Certified		—	Yes	Yes	Yes	Yes	
Vincotte OK Home Compost Approved		—	Yes	Yes	Yes	Yes	

Thickness & Yields may vary by +/- 10

All data represents typical values by the methods indicated and should be considered so. 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. No warranty is made or implied.