



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		Typical Values			
Thickness		.00095" 24 micron	.00118" 30 micron	.00197" 50 micron	.00295 75 micron
Finish		gloss/gloss	gloss/gloss	gloss/gloss	gloss/gloss
Specific Gravity		1.32	1.32	1.32	1.32
Equilibrium moisture content, % (23C and 50%RH)		Circa 2%	Circa 2%	Circa 2%	Circa 2%
Surface Energy dyne cm ⁻¹		38-42	38-42	38-42	38-42
Areal Density (g/m ²)		31.68	39.6	66.00	99.00
Yield (m ² /kg)		31.57	25.25	15.15	10.10
Dynamic Fiction coefficient		0.4 - 0.6	0.4 - 0.6	0.4 - 0.6	0.4 - 0.6
Transparency (%) D1476		92.7	92.4	91.4	91.5
Gloss (%) D523, BS 2782 520A	20°	137.0	136.3	138.3	136.9
	60°	145.6	146.5	146.1	144.7
	85°	122.4	120.4	119.8	122.2
Haze (%) ASTM D1003, BS 2782 521A		0.7	0.8	0.8	1.1
Refractive Index		1.485	1.485	1.485	1.485
Tensile Strength (Nmm ⁻²) D882	MD	80-100	80-100	80-100	80-100
Elongation at Break (%) D882	MD	25-45	25-45	25-45	25-45
E-Modulus (Nmm ⁻²) D882		2000-2500	2000-2500	2000-2500	2000-2500
Tear Initiation (N) D1938	MD	0.05	0.63	0.107	0.107
Tear Propagation (N) D1938	MD	0.031	0.039	0.087	0.087
Moisture Vapor Transmission gm ⁻² day ⁻¹					
M.V.T.R. (25°C & 75% RH)		1279	1065	639	443



MULTI-PLASTICS[®], INC.

M.V.T.R. (38°C & 90% RH)	1890	1708	n/a	761
O.T.R. (ccm ² day ⁻¹) (23°C & 0% RH)	n/a	n/a	880	n/a
Surface Resistivity (Ωm ⁻²) 50% RH	5.1x10 ⁻¹³	5.1x10 ⁻¹³	5.1x10 ⁻¹³	5.1x10 ⁻¹³
Dielectric Breakdown (kVmm ⁻¹)	15	15	15	15
Food Contact Approved	Yes	Yes	Yes	Yes
Din Certco EN 13432 certified	Yes	Yes	Yes	Yes
BPI Certified ASTM D6400	Yes	Yes	Yes	Yes
Vincotte OK Home Compost Approved	Yes	Yes	Yes	Yes

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.

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