



CELLULOSE ACETATE - PROPERTY CHART

Flow	ASTM	TEMP F	RH %	H4	H3	H2	H	MH	M	MS	MSS	
Flow Temperature - F	D569			347	338	329	320	311	302	293	284	279.5
Specific Gravity	D792	73.4	50	1.29	1.29	1.28	1.28	1.27	1.27	1.27	1.26	1.26
Rockwell Hardness - R Scale	D785	73.4	50	109	101	93	85	76	66	55	40	31
Elongation - %	D638	73.4	50	25	28	32	35	39	43	47	51	53
Izod Impact Strength ft-lb/in. of Notch	D256	-40 73.4	50	1.0 2.6	1.0 2.9	1.1 3.2	1.1 3.5	1.1 3.9	1.1 4.2	1.2 5.1	1.3 6.1	1.3 6.6
Tensile Strength at Fracture - psi	D638	73.4 158	50	7500 4400	7200 4100	6700 3650	6300 3200	5800 2800	5250 2350	4700 1950	4200 1550	3950 1350
Tensile Strength at Upper Yield - psi	D638	73.4	50	6300	5850	5350	4800	4300	3800	3400	2900	2700
Flextural Strength at Yield - psi	D790	73.4	50	10050	9300	8400	7500	6600	5600	4800	4050	3850
Modulus of Elasticity - psi x 105 (in Flexure)	D790	73.4	50	2.35	2.20	2.05	1.90	1.75	1.60	1.45	1.25	1.15
Deformation under load % (cold flow) method A (Dry) Load 2000 psi (Dry) Load 1000 psi	D621	122 122		1 1	1 1	2 1	3 1	6 1	13 1	23 1	32 5	36 8
Water Absorption (24Hr Immersion) Total % Soluble Matter lost - %	D570	73.4 73.4		2.3 0.1	2.3 0.1	2.3 0.2	2.3 0.2	2.3 0.3	2.3 0.4	2.3 0.6	2.4 0.7	2.5 0.8
Accelerated Aging - 72 Hrs. Wt. Lost %	D706	180		0.3	0.5	0.8	1.2	1.8	2.6	3.6	4.8	5.4