



ISO 9001:2008
File #10002028

Cellusuede Products, Inc.

PHYSICAL AND CHEMICAL PROPERTIES

RAYON

Breaking Tenacity	Dry	1.9 - 2.3
	Wet	1.0 - 1.4
Tensile Strength (psi)		14,200 - 51,700
Breaking Elongation (%)	Dry	20 - 25
	Wet	24 - 29
Elastic Recovery (%)		30 – 74 at 4%
Average Stiffness (gpd)		6 - 11
Average Toughness (g/cm)		0.04 – 0.32
Specific Gravity		1.50 – 1.53
Water Absorbency (%)	21°C/70°F, 65% RH	11.0
	21°C/70°F, 95% RH	27.0
Effect of Heat	Does not melt. Loses strength at 149°C/300°F; decomposes at 177°-240°C/350° - 464°F	
Effects of Acids and Alkalis	Similar to cotton. Hot dilute or cold concentrated acids disintegrate fiber. Strong alkali solutions cause swelling and reduces strength.	
Effects of Bleaches and Solvents	Attacked by strong oxidizing agents. Not damaged by hypochlorite or peroxide bleaches. Generally insoluble in common organic compounds.	
Resistance to Mildew, Aging,	Attacked by mildew. Generally good resistance to aging, sunlight and abrasion. Some intermediate rayons deteriorate upon aging and yellow when exposed to prolonged sunlight.	

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