



ISO 9001:2008
File #10002028

Cellusuede Products, Inc.

PHYSICAL AND CHEMICAL PROPERTIES

ACRYLIC FIBER

Breaking Tenacity	Wet/Dry	2.2 – 2.3/1.8-2.4
Breaking Elongation (%)	Wet/Dry	15/15
Tensile Strength (psi)		30,000 – 40,000
Elastic Recovery (%)		99 at 2%
Average Stiffness (gpd)		5.7 – 5.9
Average Toughness (g/cm)		0.40 – 0.50
Specific Gravity		1.17
Water Absorbency (%)	70°F/21°C, 65% RH 70°F/21°C, 95% RH	1.0 – 1.5 2.2 – 2.7
Effect of Heat	Does not melt. May discolor after extended exposure to 347°F/175°C. Will ignite at temperatures exceeding 900°F/485°C	
Effects of Acids and Alkalis	Good resistance to acids except soluble in nitric acid. Good resistance to weak alkalis, will degrade in strong alkalis.	
Effects of Bleaches and Solvents	Resistant to most bleaching solutions. Generally insoluble in most organic solvents. Soluble in some phenolic compounds.	
Resistance to Mildew, Aging,	Excellent resistance to mildew, aging and abrasion. Prolonged exposure to sunlight causes some degradation.	

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