



ISO 9001:2008  
File #10002028

# Cellusuede Products, Inc.

## PHYSICAL AND CHEMICAL PROPERTIES

### POLYPROPYLENE

Breaking Tenacity (gm/den)	Dry/Wet	2.0-5.0/2.0-5.0
Tensile Strength (psi)		41,000-100,000
Breaking Elongation (%)	Dry/Wet	60-100/80-100
Elastic Recovery (%)		97-100 at 2% 80-90 at 10%
Average Stiffness (g/den)		20-40
Average Toughness (g/cm)		1.0-3.0
Specific Gravity		0.90-0.91
Water Absorbency (%)	21°C/70°F, 65% RH	0.01-0.10
Effect of Heat	Softens at 140°-160°C/285°-330°F, melts at 160°-177°C/330°-350°F. Decomposes at 288°C/550°F. 0-5% shrinkage at 100°C/212°F, 5-12% shrinkage at 129°C/265°F.	
Effects of Acids and Alkalis	Excellent resistance to most acids and alkalis with the exception of hot chlorosulfonic acid, concentrated nitric acid and certain oxidizing agents.	
Effects of Bleaches and Solvents	Generally good resistance to bleaches and solvents below 71°C/160°F.	
Resistance to Mildew, Aging,	Not attacked by mildew; has good resistance to aging and abrasion; UV stabilizers give good resistance to sunlight.	

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