

# AdvanSix Inc. Capran<sup>®</sup> 1000

Capran<sup>®</sup> 1000 is a 0.40 mil (10 micron) biaxially oriented nylon 6 film with excellent flex crack resistance and superior clarity properties, well suited for packaging applications requiring excellent mechanical strength.

Product Quality Specifications	Target		Test Method	Tolerance
	English	Metric		
Average Thickness	0.400 mil	10 microns	-----	± 5%
Basis Weight	7.224 lbs/ream	11.76 g/m <sup>2</sup>	calculated	± 5%
Yield	59,800 in <sup>2</sup> /lb	85.04 m <sup>2</sup> /kg	calculated	± 5%
Dimensional Stability, TD	1.0 %		5 min @ 160°C	2.5% max
Dimensional Stability, MD	2.0%			3.6% max
Haze	2.0%		ASTM D1003	3.0% max
Surface Tension, treated side	58 dynes/cm		ASTM D2578	56 dynes/cm min

Properties at 73°F(23°C) - 50%RH	Typical Value		Test Method	
	English	Metric		
The properties presented in this data table are typical values and are not to be interpreted as product specifications.				
Tensile Strength @ break	MD TD	34,000-42,000 psi 34,000-42,000 psi	234-290 MPa 234-290 MPa	ASTM D882
Elongation @ break	MD TD	60-90% 60-90%		ASTM D882
Modulus, Secant	MD TD	300,000-400,000 psi 300,000-400,000 psi	2069-2758 MPa 2069-2758 MPa	ASTM D882
Tear Strength, Graves	MD TD	1000-1500 gf/mil 1000-1500 gf/mil		ASTM D1004
Coefficient of Friction, Kinetic Film to Film Film to Stainless Steel		0.60-0.90 0.20-0.30		ASTM D1894
Surface Tension, untreated side		> 50 dynes/cm		ASTM D2578
Oxygen Transmission Rate @77°F (25°C) / 0%RH		3.8-4.8 cc/100in <sup>2</sup> /day	59-74 cc/m <sup>2</sup> /day	ASTM D3985
Water Vapor Transmission Rate @100°F(37.8°C) / 100%H		25-30 gms/100in <sup>2</sup> /day	388-465 gms/m <sup>2</sup> /day	ASTM F1249

## Contact AdvanSix

To learn more about the benefits of Capran<sup>®</sup> films, visit [Advan6.com](http://Advan6.com) or [Capran.com](http://Capran.com) or call: **1-844-890-8949** (toll free, U.S./Can.) **+1-973-455-3000** (international)

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