

# Capran® 1200 Matte Biaxially Oriented Nylon 6 Film

## Description

**Capran® 1200 Matte** is a 0.55 mil (14 micron) biaxially oriented nylon 6 film produced by Simultaneous Tenter Frame Orientation technology with a matte appearance on one side. The matte surface imparts excellent contact clarity while maintaining superior scuff resistance. This combination of properties makes Capran® 1200 Matte well-suited for use in thermal lamination films designed for book cover applications. This film is not FDA approved and thus not suitable for food or pet applications.

Properties @ 73°F (22.7°C), 50% RH		Typical Value		Test Method
		English	Metric	
Average Thickness (base film only)	Target	0.472 mil	12 micron	AdvanSix Method
	Tolerance	+/- 5%	+/- 5%	
Basis Weight (base film only)		8.471 lbs/ream	13.79 g/sq.m	AdvanSix Method
Yield (base film only)		51,000 sq.in/lb	72.52 sq.m/kg	AdvanSix Method
Tensile Strength @ Break	MD	34,000 - 40,000 psi	234 - 276 MPa	ASTM D-882
	TD	34,000 - 40,000 psi	234 - 276 MPa	
Elongation @ Break	MD	65 - 100%		ASTM D-882
	TD	65 - 100%		
Moulus, Secant	MD	375,000 - 500,000 psi	2,586 - 3,448 MPa	ASTM D-882
	TD	375,000 - 500,000 psi	2,586 - 3,448 MPa	
Tear Strength, Graves	MD	1,000 - 1,300 gf/mil		ASTM D-1004
	TD	1,000 - 1,300 gf/mil		
Dimensional Stability (base film only)	MD	< 3.0%		Hot air at 320°F (160°C), 5 mins
	TD	< 2.5%		
Haze (base film only)		< 4.0%		ASTM D-1003
Surface Tension	Untreated Side	50 - 54 dynes/cm		ASTM D-2578
Coefficient of Friction, Kinetic	Matte to Film	0.5 - 0.6		ASTM D-1894
	Matte to Metal	0.4 - 0.5		
Gloss at 60 degrees		6.5 - 8.5		ASTM D-523
Puncture Strength		925 grams		ASTM F-1306

The properties presented in this data sheet are typical values and are not to be interpreted as product specifications.

### Contact AdvanSix

To learn more about the benefits of Capran® films, visit [AdvanSix.com/NylonSolutions](http://AdvanSix.com/NylonSolutions) or call: **1-844-890-8949** (toll free, U.S./Can.) **+1-973-526-1800** (international)

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