

Capran® MT2500 Film

Description

Capran® MT2500 film is a 1.0 mil (25 micron) biaxially oriented Nylon 6 film with a metallized barrier coating by controlled vacuum deposition of high-purity aluminum. The metallized film has corona treatment on the reverse side. Capran® MT2500 film not only maintains its physical properties, but also offers exceptional gas barrier and a pure glossy metallic appearance, making it especially well-suited for packaging and balloon applications.

Properties @ 73°F (22.7°C), 50% RH		Typical Value		Test Method
		English	Metric	
Average Thickness	Target	1.00 mil	25 micron	AdvanSix Method
	Tolerance	+/- 5%	+/- 5%	
Basis Weight		18.00 lbs/ream	29.30 g/sq.m	AdvanSix Method
Yield		24,000 sq.in/lb	34.13 sq.m/kg	AdvanSix Method
Tensile Strength @ Break	MD	32,000 - 45,000 psi	220 - 310 MPa	ASTM D-882
	TD	32,000 - 45,000 psi	220 - 310 MPa	
Elongation @ Break	MD	80 - 110%		ASTM D-882
	TD	80 - 110%		
Modulus, Secant	MD	250,000 - 350,000 psi	1,724 - 2,413 MPa	ASTM D-882
	TD	250,000 - 350,000 psi	1,724 - 2,413 MPa	
Tear Strength, Graves		600 - 1,000 gf/mil		ASTM D-1004
Dimensional Stability	MD	< 3.0%		Hot air at 320°F (160°C), 5 mins
	TD	< 2.5%		
Optical Density		≥ 2.2		Macbeth
Surface Tension	Non-Metallized Side	> 50 dynes/cm		ASTM D-2578
Coefficient of Friction, Kinetic	Film to Film	0.6 - 0.8		ASTM D-1894
	Film to Metal	0.2 - 0.3		
Oxygen Transmission Rate @ 73°F/0% RH, 23°C/0% RH		0.03 - 0.07 cc/100 in²/day	0.47 - 1.09 cc/m²/day	ASTM D-3985
Water Vapor Transmission Rate @ 100°F/100% RH, 37.7°C/100% RH		0.17 gm/100 in²/day	2.64 gm/m²/day	ASTM F-1249

The values 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](https://www.advansix.com/NylonSolutions) or call: **1-844-890-8949** (toll free, U.S./Can.) **+1-973-526-1800** (international)

Although AdvanSix Inc. believes that the information contained herein is accurate and reliable, it is presented without guarantee or responsibility of any kind and does not constitute any representation or warranty of AdvanSix Inc., either expressed or implied. A number of factors may affect the performance of any products used in conjunction with user's materials, such as other raw materials, application, formulation, environmental factors and manufacturing conditions among others, all of which must be taken into account by the user in producing or using the products. The user should not assume that all necessary data for the proper evaluation of these products are contained herein. Information provided herein does not relieve the user from the responsibility of carrying out its own tests and experiments, and the user assumes all risks and liabilities (including, but not limited to, risks relating to results, patent infringement, regulatory compliance and health, safety and environment) related to the use of the products and/or information contained herein.

AdvanSix
300 Kimball Drive, Suite 101
Parsippany, NJ 07054



Capran® is a registered trademark of AdvanSix Inc.
November 2021-1
©2021 AdvanSix Inc. All rights reserved.