

# Capran® 2500RT Biaxially Oriented Nylon 6 Film

## Description

Capran® 2500RT is a 1.0 mil (25 micron) biaxially oriented nylon 6 film. It features a superior balance of properties, including high gas barrier, excellent toughness and puncture resistance, and exceptional flex crack resistance and optics. Capran® 2500RT is particularly recommended for retort applications and is well-suited for packaging applications requiring optimum protection and performance.

Properties @ 73°F (22.7°C), 50% RH		Typical Value		Test Method
		English	Metric	
Average Thickness	Target	1.000 mil	25.4 micron	AdvanSix Method
	Tolerance	+/- 5%	+/- 5%	
Basis Weight		18.000 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	
Dimensional Stability	MD	< 3.0%		Hot air at 320°F (160°C), 5 mins
	TD	< 2.5%		
Haze		< 5.0%		ASTM D-1003
Surface Tension	Treated Side	> 56 dynes/cm		ASTM D-2578
	Untreated Side	48 - 54 dynes/cm		
Coefficient of Friction, Kinetic	Film to Film	0.5 - 0.9		ASTM D-1894
	Film to Metal	0.2 - 0.3		
Oxygen Transmission Rate @ 77°F/0% RH, 25°C/0% RH		1.3 - 2.3 cc/100 in <sup>2</sup> /day	20 - 36 cc/m <sup>2</sup> /day	ASTM D-3985
Water Vapor Transmission Rate @ 100°F/100% RH, 37.7°C/100% RH		11 - 13 gm/100 in <sup>2</sup> /day	171 - 202 gm/m <sup>2</sup> /day	ASTM F-1249

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)

### AdvanSix

300 Kimball Drive, Suite 101  
Parsippany, NJ 07054

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.



Capran® is a registered trademark of AdvanSix Inc.  
August 2019-7, Printed in U.S.A.  
©2019 AdvanSix Inc. All rights reserved.