

# OxyShield® 2545 Biaxially Oriented Nylon 6 Film

## Description

**OxyShield® 2545** is a 1.0 mil (25 micron) biaxially oriented nylon 6 film coated on one side with PVdC. The coating is applied without the need for a primer layer, offering superior coating adhesion and laminating adhesion to other films. Medium oxygen and moisture vapor barrier in addition to superior clarity, make it well-suited for packaging applications requiring excellent mechanical strength and long shelf life.

Product Quality Specifications	Target		Test Method	Tolerance, %
	English	Metric		
Average Thickness	1.000 mil	25.4 microns	–	+/- 5
Basis Weight	17.18 lbs/ream	27.97 g/m <sup>2</sup>	Calculated	+/- 10
Yield	25,146 in <sup>2</sup> /lb	35.76 m <sup>2</sup> /kg	Calculated	+/- 10
Dimensional Stability, %	MD	2.0	Hot air @ 160°C (320°F), 5 min	2.5 max.
	TD	1.0		3.0 max.
Haze, %	3.5	3.5	ASTM D-1003	5.0 max

Properties @ 73°F (22.7°C), 50% RH		Typical Value		Test Method
		English	Metric	
Tensile Strength @ Break	MD	35,000-40,000 psi	241-276 MPa	ASTM D-882
	TD	35,000-40,000 psi	241-276 MPa	
Elongation @ Break	MD	80-100%		ASTM D-882
	TD	80-100%		
Modulus, Secant	MD	300,000-450,000 psi	2069-3103 MPa	ASTM D-882
	TD	300,000-450,000 psi	2069-3103 MPa	
Tear Strength, gf/mil	MD	1,000-1,500		ASTM D-1004
	TD	1,000-1,500		
Coefficient of Friction, Static/Kinetic	Coated to Film	0.60-0.90		ASTM D-1894
	Film to Stainless Steel	0.20-0.40		
	Coated to Stainless Steel	0.40-0.50		
Surface Tension, Uncoated Side, dynes/cm		>50		ASTM D-2578
Oxygen Transmission Rate @ 77°F (25°C)/65% RH		0.9 cc/100 in <sup>2</sup> /day	14.0 cc/m <sup>2</sup> /day	ASTM D-3985
Water Vapor Transmission Rate @ 100°F (37.8°C)/100% RH		0.7-0.9 gm/100 in <sup>2</sup> /day	10.9-14.0 gm/m <sup>2</sup> /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 OxyShield® films, visit [AdvanSix.com](http://AdvanSix.com) or call: **1-844-890-8949** (toll free, U.S./Can.) **+1-973-526-1800** (international)

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May 2018-4, Printed in U.S.A.  
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