

AdvanSix Inc. OxyShield® 1545

OxyShield® 1545 is a 0.59 mil (15 micron) biaxially oriented nylon 6 film coated on one side with PVdC. The coating is applied without the need for a primer layer and so presents superior coating adhesion and laminating adhesion to other films. Medium oxygen and moisture vapor barrier and superior clarity are properties well suited for packaging applications requiring excellent mechanical strength and long shelf life.

Product Quality Specifications	Target		Test Method	Tolerance
	English	Metric		
Average Thickness	0.590 mil	15 microns	----	± 5%
Basis Weight	10.788 lbs/ream	17.56 g/m ²	calculated	± 10%
Yield	40,044 in ² /lb	56.94 m ² /kg	calculated	± 10%
Dimensional Stability, TD	1.0 %		5 min @ 160°C	2.5% max
Dimensional Stability, MD	2.0%			3.0% max
Haze	2.5%		ASTM D1003	4.0% max

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	35,000-40,000 psi 35,000-40,000 psi	241-276 MPa 241-276 MPa	ASTM D882
Elongation @ break	MD TD	75-100% 75-100%		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		0.60-0.90		ASTM D1894
Coated to Film		0.20-0.40		
Film to Stainless Steel		0.40-0.50		
Surface Tension, uncoated side		> 50 dynes/cm		ASTM D2578
Oxygen Transmission Rate @77°F (25°C) / 65%RH		0.9 cc/100in ² /day	14.0 cc/m ² /day	ASTM D3985
Water Vapor Transmission Rate @100°F(37.8°C) / 100%H		0.7-0.9 gms/100in ² /day	10.9-14.0 gms/m ² /day	ASTM F1249

Contact AdvanSix

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

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