

# OxyShield® Plus 1350

Polyamide 6

Honeywell

## Message:

OxyShield® Plus 1350 is a 13.5 micron biaxially oriented nylon film having a high barrier to oxygen and other gases. The film provides excellent mechanical properties at high and low temperatures, and excellent toughness and puncture resistance.

General Information			
Features	Non-thixotropy		
	Perforation resistance		
	Barrier resin		
Uses	Bi-axially Oriented Film		
Forms	Films		
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.20		ASTM D1894
With self-dynamics	0.50		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	14	µm	
secant modulus			ASTM D882
MD : 13 µm	2550	MPa	ASTM D882
TD : 13 µm	2100	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 13 µm	272	MPa	ASTM D882
TD: Broken, 13 µm	310	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 13 µm	120	%	ASTM D882
TD: Broken, 13 µm	90	%	ASTM D882
Oxygen Permeability			ASTM D3985
25°C, 13 µm, 0% RH	4.7	cm <sup>3</sup> ·mm/m <sup>2</sup> /atm/24 hr	ASTM D3985
25°C, 13 µm, 65% RH	4.1	cm <sup>3</sup> ·mm/m <sup>2</sup> /atm/24 hr	ASTM D3985
Water Vapor Transmission Rate (14 µm, 38°C, 100% RH)	350	g·mm/m <sup>2</sup> /atm/24 hr	ASTM F1249
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 13.5 µm)	108		ASTM D2457
Haze (13.5 µm)	2.0	%	ASTM D1003
Additional Information			

Yield: 44513 in<sup>2</sup>/lbTensile Strength @ Break, ASTM D 882, MD: 35000 to 44000 psiTensile Strength @ Break, ASTM D 882, TD: 40000 to 50000 psiElongation @ Break, ASTM 882, MD: 110 to 130%Elongation @ Break, ASTM 882, TD: 80 to 100%Secant Modulus, ASTM D 882, MD: 320000 to 420000 psiSecant Modulus, ASTM D 882, TD: 255000 to 355000 psiCoefficient of Friction, ASTM D 1894: 0.4 to 0.6 vs Itself-DynamicCoefficient of Friction, ASTM D 1894: 0.1 to 0.3 vs Metal-DynamicDimensional Stability, ASTM D1204, MD, 320°F, 5min: 1.5 to 2.5% shrinkageDimensional Stability, ASTM D1204, TD, 320°F, 5min: 1.0 to 2.0% shrinkageCorona Treatment, ASTM D5946, treated side: 54 to 56 dynes/cmCorona Treatment, ASTM D5946,untreated side: 48 to 50 dynes/cm

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