

OxyShield® Plus 1500

Polyamide 6

Honeywell

Message:

OxyShield® Plus 1500 is a 15 micron biaxially oriented nylon film having a very 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	Perforation resistance		
	Good toughness		
	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	15	µm	
secant modulus			ASTM D882
MD : 15 µm	2550	MPa	ASTM D882
TD : 15 µm	2100	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Break, 15 µm	272	MPa	ASTM D882
TD: Break, 15 µm	310	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 15 µm	120	%	ASTM D882
TD: Break, 15 µm	90	%	ASTM D882
Oxygen Permeability			ASTM D3985
25°C, 15 µm, 0% RH	1.2	cm ³ ·mm/m ² /atm/24 hr	ASTM D3985
25°C, 15 µm, 65% RH	1.5	cm ³ ·mm/m ² /atm/24 hr	ASTM D3985
Water Vapor Transmission Rate (15 µm, 38°C, 100% RH)	350	g·mm/m ² /atm/24 hr	ASTM F1249
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 15.0 µm)	108		ASTM D2457
Haze (15.0 µm)	2.0	%	ASTM D1003
Additional Information			

Yield: 40189 in²/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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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