OxyShield® 1545

Polyamide 6

Honeywell

Message:

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.

General Information	
Features	Highlight High strength Definition, high
Uses	Bi-axially Oriented Film Packaging
Forms	Films

Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
With metal-dynamic, extrusion coating	0.55		ASTM D1894
With Metal-Dynamic	0.30		ASTM D1894
With metal-static	0.40		ASTM D1894
With metal-static, extrusion coating	1.3		ASTM D1894
With self-dynamics	0.65		ASTM D1894
With Self-Static	1.1		ASTM D1894

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	15	µm	
secant modulus			ASTM D882
MD : 15 µm	2320	MPa	ASTM D882
TD : 15 µm	2150	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Break, 15 µm	248	MPa	ASTM D882
TD: Break, 15 µm	248	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 15 µm	87	%	ASTM D882
TD: Break, 15 µm	87	%	ASTM D882
Oxygen Permeability (23°C, 15 µm, 65% RH)	0.35	$cm^3 \cdot mm/m^2/atm/24\ hr$	ASTM D3985
Water Vapor Transmission Rate (15 µm, 38°C, 100% RH)	12	$g \cdot mm/m^2/atm/24\ hr$	ASTM F1249

Optical	Nominal Value	Unit	Test Method

Haze (15.0 µm)	< 5.0	%	ASTM D1003

Additional Information

Yield: 40800 in²/lbTensile Strength @ Break, ASTM D 882, MD: 34000 to 38000 psiTensile Strength @ Break, ASTM D 882, TD: 34000 to 38000 psiElongation @ Break, ASTM 882, MD: 75 to 100%Elongation @ Break, ASTM 882, TD: 75 to 100%Secant Modulus, ASTM D 882, MD: 300000 to 375000 psiSecant Modulus, ASTM D 882, TD: 275000 to 350000 psiGraves Tear (initial), ASTM D 1004, MD: 1100 to1400 g/milGraves Tear (initial), ASTM D 1004, TD: 1100 to1400 g/milCoefficient of Friction, ASTM D 1894: 0.6 to 0.7 vs Itself-DynamicCoefficient of Friction, ASTM D 1894: 0.9 to 1.3 vs Itself-StaticCoefficient of Friction, ASTM D 1894: 0.2 to 0.4 vs Metal-DynamicCoefficient of Friction, ASTM D 1894: 0.3 to 0.5 vs Metal-StaticCoefficient of Friction, ASTM D 1894, Extrusion Coated: 0.4 to 0.7 vs Metal-DynamicCoefficient of Friction, ASTM D 1894, Extrusion Coated: 0.8 to 1.8 vs Metal-StaticDimensional Stability, ASTM D1204, MD, 320°F, 5min: < 2.5% shrinkageDimensional Stability, ASTM D1204, TD, 320°F, 5min: <1.5% shrinkage

Recommended distributors for this material

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