

OxyShield® 2545

Polyamide 6

Honeywell

Message:

OxyShield® 2545 is a polyamide 6 (nylon 6) product. It is available in North America. OxyShield® 2545 application areas include packaging and movies. Features include:
high gloss
high strength

General Information			
Features	Highlight		
	High strength		
Uses	Bi-axially Oriented Film		
	Packaging		
Forms	Films		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			ASTM D955
Flow	1.3 - 2.0	%	ASTM D955
Transverse flow	0.0 - 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.27		ASTM D1894
With self-dynamics	0.78		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	28	µm	
secant modulus			ASTM D882
MD	2840	MPa	ASTM D882
TD	2840	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Fracture	248	MPa	ASTM D882
TD: Fracture	248	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	90	%	ASTM D882
TD: Fracture	90	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD	19	g	ASTM D1922
TD	19	g	ASTM D1922
Oxygen Permeability (23°C, 65% RH)	0.21	cm ³ · mm/m ² /atm/24 hr	ASTM D3985
Water Vapor Transmission	9.3	g/m ² /24 hr	ASTM E96

Optical	Nominal Value	Unit	Test Method
Gloss (20°)	80		ASTM D2457
Haze	5.0	%	ASTM D1003

Additional Information

Tensile Strength @ Break, ASTM D 882, MD & TD: 30000 - 42000 psiElongation @ Break, ASTM 882, MD & TD: 70 - 110%Secant Modulus, ASTM D 882, MD & TD: 350000 - 475000 psiElmendorf Tear Str, ASTM D 1922, MD & TD: 15 - 19 g/milGraves Tear (initial), ASTM D 1004: 1100 - 1400 g/milGloss (20°), ASTM D 2457: 75 - 85Coefficient of Friction, ASTM D 1894: 0.65 - 0.90 vs Itself-DynamicCoefficient of Friction, ASTM D 1894: 0.24 - 0.30 vs Metal-DynamicOxygen Permeability, ASTM D 3985, 73°F/0% RH: .52 cc/100 in²/dayThe value listed as Mold Shrink, Linear-Flow, ASTM D 955, was tested in accordance with ASTM D 1204.The value listed as Mold Shrink, Linear-Trans, ASTM D 955, was tested in accordance with ASTM D 1204.The value listed as Water Vapor Transmission , ASTM E 96, was tested in accordance with ASTM F 1249.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

