

# 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 <sup>3</sup> ·mm/m <sup>2</sup> /atm/24 hr	ASTM D3985
Water Vapor Transmission	9.3	g/m <sup>2</sup> /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 in<sup>2</sup>/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.

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