

# Capran® 2500M

Polyamide 6

Honeywell

## Message:

CAPRAN® 2500M is a 1.00 mil (25 micron) biaxially oriented nylon 6 film with a polymeric coating which provides enhanced adhesion to a variety of inks, coatings, and adhesives. Metallization adhesion is excellent when using "M" coated products.

General Information			
Features	Good adhesion		
Uses	Bi-axially Oriented Film		
Forms	Films		
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.23		ASTM D1894
With self-dynamics	0.75		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
secant modulus			ASTM D882
MD : 25 µm	2760	MPa	ASTM D882
TD : 25 µm	2760	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Break, 25 µm	255	MPa	ASTM D882
TD: Break, 25 µm	255	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	80	%	ASTM D882
TD: Break, 25 µm	80	%	ASTM D882
Oxygen Permeability (25°C)	0.71	cm <sup>3</sup> · mm/m <sup>2</sup> /atm/24 hr	ASTM D3985
Water Vapor Transmission Rate (25 µm, 38°C, 100% RH)	190	g · mm/m <sup>2</sup> /atm/24 hr	ASTM F1249
Optical	Nominal Value	Unit	Test Method
Gloss (20°, 25.4 µm)	90 - 140		ASTM D2457
Haze (25.4 µm)	2.3 - 3.4	%	ASTM D1003
Additional Information			

Yield: 24000 in<sup>2</sup>/lbTensile Strength @ Break, ASTM D 882, MD & TD: 34000 to 42000 psiElongation @ Break, ASTM 882, MD & TD: 70 to 90%Secant Modulus, ASTM D 882, MD & TD: 350000 to 450000 psiGraves Tear (initial), ASTM D1004, MD & TD: 1100 to 1500 g/milDimensional Stability, ASTM D1204, 320°F, 5 mins, MD: 1.5 to 2.5% shrinkageDimensional Stability, ASTM D1204, 320°F, 5 mins, TD: 0.2 to 0.7% shrinkageCoefficient of Friction, ASTM D 1894: 0.60 to 0.90 vs Itself-DynamicCoefficient of Friction, ASTM D 1894: 0.18 to 0.27 vs Metal-DynamicOxygen Permeability, ASTM D 3985: 1.3 to 2.3 cc/100 in<sup>2</sup>/dayWater Vapor Transmission, ASTM F 1249: 11 to 13 g/100 in<sup>2</sup>/daySurface Tension, ASTM 2578, minimum, treated side: >/= 56 dynes/cmSurface Tension, ASTM 2578, Minimum, untreated side: >/= 50 dynes/cm

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