

# Capran Medallion MT-2500

Polyamide 6

Honeywell

## Message:

CAPRAN MEDALLION® MT2500 is a 1.00 mil (25 micron) biaxially oriented nylon 6 film with a metallized barrier coating well suited for high barrier packaging applications.

General Information			
Features	Highlight		
	High strength		
Uses	Bi-axially Oriented Film		
	Packaging		
Forms	Films		
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.18		ASTM D1894
With self-dynamics	0.50		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
secant modulus			ASTM D882
MD : 25 µm	3100	MPa	ASTM D882
TD : 25 µm	2550	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Break, 25 µm	276	MPa	ASTM D882
TD: Break, 25 µm	345	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	100	%	ASTM D882
TD: Break, 25 µm	80	%	ASTM D882
Oxygen Permeability (23°C, 25 µm)	0.028	cm <sup>3</sup> · mm/m <sup>2</sup> /atm/24 hr	ASTM D3985
Water Vapor Transmission Rate (25 µm, 38°C, 100% RH)	2.6	g · mm/m <sup>2</sup> /atm/24 hr	ASTM F1249
Additional Information			

Yield: 23964 in<sup>2</sup>/lbTensile Strength @ Break, ASTM D 882, MD: 35000 to 45000 psiTensile Strength @ Break, ASTM D 882, TD: 45000 to 55000 psiElongation @ Break, ASTM 882, MD: 90 to 110%Elongation @ Break, ASTM 882, TD: 70 to 90%Secant Modulus, ASTM D 882, MD: 400000 to 500000 psiSecant Modulus, ASTM D 882, TD: 320000 to 420000 psiGraves Tear (initial), ASTM D 1004, MD: 1000 to1400 g/milGraves Tear (initial), ASTM D 1004, TD: 1000 to1500 g/milCoefficient of Friction, ASTM D 1894: 0.40 to 0.60 vs Itself-DynamicCoefficient of Friction, ASTM D 1894: 0.13 to 0.24 vs Metal-DynamicHelium Transmission Rate, ASTM D 1434, 73°F/0%RH: <6 cc/100in<sup>2</sup>/daySurface Tension, ASTM D5946, untreated side: 48 to 50 dynes/cmDimensional 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% shrinkage

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