Capran Medallion® MT-1200

Polyamide 6

Honeywell

Message:

CAPRAN MEDALLION® MT1200 is a 0.47 mil (12 micron) biaxially oriented nylon 6 film with a metallized barrier coating well suited for packaging and balloon applications.

General Information			
Features	Highlight High strength		
Uses	Bi-axially Oriented Film Packaging Balloon application		
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	12	µm	
secant modulus			ASTM D882
MD : 12 µm	3100	MPa	ASTM D882
TD : 12 µm	2760	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Break, 12 µm	276	MPa	ASTM D882
TD: Break, 12 µm	310	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 12 µm	100	%	ASTM D882
TD: Break, 12 µm	70	%	ASTM D882
Oxygen Permeability (23°C, 12 µm)	0.028	$cm^3 \cdot mm/m^2/atm/24\ hr$	ASTM D3985
Water Vapor Transmission Rate (12 µm, 38°C, 100% RH)	2.6	$g \cdot mm/m^2/atm/24\ hr$	ASTM F1249

Additional Information

Yield: 50012 in^2/lbTensile Strength @ Break, ASTM D 882, MD: 35000 to 45000 psiElongation @ Break, ASTM 882, MD: 90 to 110%Elongation @ Break, ASTM 882, TD: 60 to 80%Secant Modulus, ASTM D 882, MD: 400000 to 500000 psiSecant Modulus, ASTM D 882, TD: 400000 to 500000 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: 10.13 to 0.24 vs Metal-DynamicHelium Transmission Rate, ASTM D 1434, 73°F/0%RH: <6 cc/100in^2/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

Recommended distributors for this material

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