

Capran Medallion® 1500 film

Polyamide 6

Honeywell

Message:

CAPRAN MEDALLION® films from Honeywell are biaxially oriented nylon 6 films with excellent strength and barrier properties. They are well suited for a variety of packaging applications.

General Information			
Features	High strength		
	Perforation resistance		
	Good cracking resistance		
	Definition, high		
	Good toughness		
	Barrier resin		
Uses	Films		
	Laminate		
	Food packaging		
Forms	Films		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			ASTM D955
Flow: 0.0152mm	1.5 - 2.5	%	ASTM D955
Transverse flow: 0.0152mm	1.0 - 2.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.19		ASTM D1894
With self-dynamics	0.50		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	15	µm	
secant modulus			ASTM D882
MD : 15 µm	3100	MPa	ASTM D882
TD : 15 µm	2550	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Break, 15 µm	276	MPa	ASTM D882
TD: Break, 15 µm	345	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 15 µm	100	%	ASTM D882
TD: Break, 15 µm	75	%	ASTM D882
Oxygen Permeability (25°C, 15 µm)	1.6	cm ³ · mm/m ² /atm/24 hr	ASTM D3985

Water Vapor Transmission Rate (15 μ m, 38°C, 100% RH)	330	$\text{g} \cdot \text{mm}/\text{m}^2/\text{atm}/24 \text{ hr}$	ASTM F1249
Optical	Nominal Value	Unit	Test Method
Gloss (20°, 15.2 μ m)	130 - 150		ASTM D2457
Haze (15.2 μ m)	2.0 - 3.0	%	ASTM D1003
Additional Information			

Yield: 40044 in^2/lb Tensile 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: 65 to 85%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: 1100 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-DynamicSurface Tension, ASTM D5946, treated side: ≥ 56 dynes/cmSurface Tension, ASTM D5946, untreated side: >50 dynes/cmWater Vapor
Transmission ASTM F 1249, 100°F, 100%RH: 20 to 23 $\text{g}/100 \text{ in}^2/\text{day}$ Oxygen Transmission Rate, ASTM D3985, 77°F, 0%RH: 3.0 to 4.0 $\text{cc}/100\text{in}^2/\text{day}$

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