

Capran® 1000

Polyamide 6

Honeywell

Message:

CAPRAN® 1000 is a 0.40 mil (10 micron) biaxially oriented nylon 6 film with excellent flex crack resistance and superior clarity properties well suited for packaging applications requiring excellent mechanical strength.

General Information			
Features	High strength		
	Good cracking resistance		
	Definition, high		
Uses	Bi-axially Oriented Film		
	Packaging		
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	10	µm	
secant modulus			ASTM D882
MD : 10 µm	2760	MPa	ASTM D882
TD : 10 µm	2760	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Break, 100 µm	262	MPa	ASTM D882
TD: Break, 100 µm	262	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 100 µm	75	%	ASTM D882
TD: Break, 100 µm	75	%	ASTM D882
Oxygen Permeability (25°C, 100 µm)	1.7	cm ³ · mm/m ² /atm/24 hr	ASTM D3985
Water Vapor Transmission Rate (10 µm, 38°C, 100% RH)	420	g · mm/m ² /atm/24 hr	ASTM F1249
Optical	Nominal Value	Unit	Test Method
Gloss (20°, 102 µm)	160 - 180		ASTM D2457
Haze (102 µm)	1.7 - 3.0	%	ASTM D1003
Additional Information			

Yield: 59800 in²/lbTensile Strength @ Break, ASTM D 882, MD: 34000 to 42000 psiTensile Strength @ Break, ASTM D 882, TD: 34000 to 42000 psiElongation @ Break, ASTM 882, MD: 60 to 90%Elongation @ Break, ASTM 882, TD: 60 to 90%Secant Modulus, ASTM D 882, MD: 350000 to 450000 psiSecant Modulus, ASTM D 882, TD: 350000 to 450000 psiGraves Tear (initial), ASTM D 1004, MD: 1100 to1500 g/milGraves Tear (initial), ASTM D 1004, TD: 1100 to1500 g/milCoefficient 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-DynamicSurface Tension, ASTM D5946, treated side: >/= 56 dynes/cmSurface Tension, ASTM D5946, untreated side: >50 dynes/cmDimensional Stability, ASTM D1204, MD, 320°F, 5min: 1.5 to 2.5% shrinkageDimensional Stability, ASTM D1204, TD, 320°F, 5min: 0.2 to 0.7% shrinkageWater Vapor Transmission ASTM F 1249, 100°F, 100%RH: 25 to 30 g/100 in²/dayOxygen Transmission Rate, ASTM D3985, 100°F, 100% RH: 25 to 30 g/100 in²/day

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

