Capran® 1200M

Polyamide 6

Honeywell

Message:

CAPRAN® 1200M is a 0.47 mil (12 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	12	µm	
secant modulus			ASTM D882
MD : 12 µm	2760	MPa	ASTM D882
TD : 12 µm	2760	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Break, 12 µm	255	MPa	ASTM D882
TD: Break, 12 µm	255	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 12 µm	75	%	ASTM D882
TD: Break, 12 µm	75	%	ASTM D882
Oxygen Permeability (25°C, 12 µm)	1.6	$cm^3 \cdot mm/m^2/atm/24\ hr$	ASTM D3985
Water Vapor Transmission Rate (12 µm, 38°C, 100% RH)	380	$g \cdot mm/m^2/atm/24\ hr$	ASTM F1249
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (20°, 11.9 µm)	160 - 180		ASTM D2457
Haze (11.9 µm)	2.0 - 3.0	%	ASTM D1003

Additional Information
Yield: 51000 in^2/lbTensile Strength @ Break, ASTM D 882, MD & TD: 34000 to 42000 psiElongation @ Break, ASTM 882, MD & TD: 65 to 90%Secant Modulus, ASTM D 882, MD & TD: 350000 to 450000 psiGraves Tear (initial), ASTM D1004, MD & TD: 1100 to 1500 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-DynamicOxygen Permeability, ASTM D 3985: 3.5 to 4.5 cc/100 in^2/dayWater Vapor Transmission, ASTM F 1249: 23 to 26 g/100 in^2/daySurface Tension, ASTM 2578, minimum, treated side: >/= 56 dynes/cmSurface Tension, ASTM 2578, Minimum, untreated side: >/= 50 dynes/cmDimensional 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% shrinkage

Recommended distributors for this material

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