

## Honeywell Capran® Emblem,ç 1500 Clear Bi-Axially Oriented Nylon Film

Category : Polymer , Film , Thermoplastic , Nylon

### Material Notes:

Description: Capran® Emblem,ç 1500 is a bi-axially oriented nylon film. It is a versatile and robust film that satisfies many packaging needs, and has superior resistance to oils, fats, hydrocarbons, and many solvents. It is also microwavable, making it an excellent choice for lidding stock. Applications: bag-on-box packaging, packaging for processed meats, cheese, meat snacks, coffee bricks, coffee bags, and pet food, agricultural bags, stand-up shampoo pouches, book covers and metallized balloons. Information provided by Honeywell.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Honeywell-Capran-Emblem-1500-Clear-Bi-Axially-Oriented-Nylon-Film.php](http://www.lookpolymers.com/polymer_Honeywell-Capran-Emblem-1500-Clear-Bi-Axially-Oriented-Nylon-Film.php)

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0420 lb/in <sup>3</sup>	Yield Density
Water Vapor Transmission	310 - 357 g/m <sup>2</sup> /day	20.0 - 23.0 g/100 in <sup>2</sup> /day	100°F / 100%RH); ASTM F1249
Oxygen Transmission Rate	46.56 - 62.08 cc/m <sup>2</sup> /day	2.998 - 3.998 cc/100 in <sup>2</sup> /day	77°F / 0% / RH; ASTM D3985
Thickness	15.2 microns	0.600 mil	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	60 - 110 %	60 - 110 %	ASTM D882
Film Elongation at Break, TD	60 - 100 %	60 - 100 %	ASTM D882
Secant Modulus, MD	2.41 - 3.52 GPa	350 - 511 ksi	ASTM D882
Secant Modulus, TD	2.275 - 3.45 GPa	330.0 - 500 ksi	ASTM D882
Coefficient of Friction	0.18 - 0.27	0.18 - 0.27	film to stainless steel; ASTM D1894
	0.59 - 0.60	0.59 - 0.60	film to film; ASTM D1894
Tear Strength Test	1100 - 1500	1100 - 1500	graves tear, grams/mil (initial); ASTM D1004
Elmendorf Tear Strength, MD	0.5248 - 0.7217 g/micron	13.33 - 18.33 g/mil	
Film Tensile Strength at Break, MD	221 - 303 MPa	32000 - 44000 psi	ASTM D882
Film Tensile Strength at Break, TD	200 - 283 MPa	29000 - 41000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Shrinkage, MD	1.4 - 2.4 %	1.4 - 2.4 %	320°F / 160°C - 5 minutes; ASTM D1204

Thermal Properties	Metric 1.70 %	English 70 %	Comments 220Å°F / 160Å°C - 5 minutes; ASTM D1204
Optical Properties	Metric	English	Comments
Haze	<= 3.3 %	<= 3.3 %	ASTM D1003
Gloss	160 - 175 %	160 - 175 %	at 20Å°
Transmission, Visible	90 %	90 %	clear; thickness not quantified

## Contact Songhan Plastic Technology Co.,Ltd.

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