

Honeywell Capran® Emblem,ç 1200M Bi-Axially Oriented Nylon 6 Film

Category : Polymer , Film , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Film Grade

Material Notes:

Description: Capran® Emblem,ç 1200M is a 0.48 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.

Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-Capran-Emblem-1200M-Bi-Axially-Oriented-Nylon-6-Film.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0420 lb/in ³	Yield Density
Water Vapor Transmission	357 - 403 g/m ² /day	23.0 - 26.0 g/100 in ² /day	100°F / 100%RH); ASTM F1249
Oxygen Transmission Rate	54.0 - 70.0 cc/m ² /day	3.48 - 4.51 cc/100 in ² /day	77°F / 0% / RH; ASTM D3985
Thickness	12.2 microns	0.480 mil	
Surface Tension	>= 50 dynes/cm	>= 50 dynes/cm	untreated side; ASTM D5946
	>= 56 dynes/cm	>= 56 dynes/cm	treated side; ASTM D5946

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	60 - 90 %	60 - 90 %	ASTM D882
Film Elongation at Break, TD	60 - 90 %	60 - 90 %	ASTM D882
Secant Modulus, MD	2.413 - 3.916 GPa	350.0 - 568.0 ksi	ASTM D882
Secant Modulus, TD	2.482 - 3.585 GPa	360.0 - 520.0 ksi	ASTM D882
Coefficient of Friction	0.17 - 0.28	0.17 - 0.28	film to stainless steel; ASTM D1894
	0.55 - 0.74	0.55 - 0.74	film to film; ASTM D1894
Tear Strength Test	1100 - 1500	1100 - 1500	graves tear MD, grams/mil; ASTM D1004
	1100 - 1500	1100 - 1500	graves tear TD, grams/mil; ASTM D1004
Film Tensile Strength at Break, MD	234 - 303 MPa	34000 - 44000 psi	ASTM D882
Film Tensile Strength at Break, TD	193 - 303 MPa	28000 - 44000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Shrinkage, TD	0.20 - 0.70 %	0.20 - 0.70 %	320Â°F / 160Â°C - 5 minutes; ASTM D1204

Optical Properties	Metric	English	Comments
Haze	<= 3.0 %	<= 3.0 %	ASTM D1003
Gloss	160 - 180 %	160 - 180 %	at 20Â°

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