

Honeywell Capran® Emblem, 1000 Bi-Axially Oriented Nylon 6 Film

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

Material Notes:

Description: Capran® Emblem, 1000 is a 0.40 mil (10 micron) biaxially oriented nylon 5 film with excellent flex crack resistance and superior clarity properties. Applications: packaging applications requiring excellent mechanical strength. Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-Capran-Emblem-1000-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	388 - 465 g/m ² /day	25.0 - 29.9 g/100 in ² /day	100°F / 100%RH); ASTM F1249
Oxygen Transmission Rate	59.0 - 74.0 cc/m ² /day	3.80 - 4.77 cc/100 in ² /day	77°F / 0% / RH; ASTM D3985
Thickness	10.2 microns	0.400 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	65 - 90 %	65 - 90 %	ASTM D882
Film Elongation at Break, TD	55 - 90 %	55 - 90 %	ASTM D882
Secant Modulus, MD	2.758 - 3.889 GPa	400.0 - 564.1 ksi	ASTM D882
Secant Modulus, TD	2.655 - 3.703 GPa	385.1 - 537.1 ksi	ASTM D882
Coefficient of Friction	0.18 - 0.34	0.18 - 0.34	film to stainless steel; ASTM D1894
	0.57 - 0.81	0.57 - 0.81	film to film; ASTM D1894
Tear Strength Test	1100 - 1600	1100 - 1600	graves tear MD, grams/mil; ASTM D1004
	1100 - 1600	1100 - 1600	graves tear TD, grams/mil; ASTM D1004
Film Tensile Strength at Break, MD	241 - 296 MPa	35000 - 43000 psi	ASTM D882
Film Tensile Strength at Break, TD	221 - 290 MPa	32000 - 42000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Shrinkage, TD	0.30 - 0.90 %	0.30 - 0.90 %	320Â°F / 160Â°C - 5 minutes; ASTM D1204

Optical Properties	Metric	English	Comments
Haze	1.7 - 3.0 %	1.7 - 3.0 %	ASTM D1003
Gloss	160 - 180 %	160 - 180 %	at 20Â°

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