

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

Category : Polymer , Film , Thermoplastic , Nylon

Material Notes:

Description: Capran® Emblem,ç 1200MT 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. 1200MT film has a metallized coating that provides an effective barrier to oxygen, helium, and water vapor. Applications: message balloons as well as food packaging requiring high barrier. Information provided by Honeywell.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0420 lb/in ³	Yield Density
Water Vapor Transmission	2.64 g/m ² /day	0.170 g/100 in ² /day	100°F / 100%RH); ASTM F1249
Oxygen Transmission Rate	1.086 cc/m ² /day	0.06994 cc/100 in ² /day	77°F / 0% / RH; ASTM D3985
Thickness	12.2 microns	0.480 mil	

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	2.41 - 3.93 GPa	350 - 570 ksi	ASTM D882
Secant Modulus, TD	2.482 - 3.59 GPa	360.0 - 521 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, grams/mil (initial); ASTM D1004
Elmendorf Tear Strength, MD	0.4102 - 0.6563 g/micron	10.42 - 16.67 g/mil	
Film Tensile Strength at Break, MD	193 - 276 MPa	28000 - 40000 psi	ASTM D882
Film Tensile Strength at Break, TD	193 - 276 MPa	28000 - 40000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Shrinkage, MD	1.6 - 2.5 %	1.6 - 2.5 %	320°F / 160°C - 5 minutes; ASTM D1204

Shrinkage TD Thermal Properties	0.20 - 0.70 % Metric	0.20 - 0.70 % English	320Å°F / 160Å°C - 5 minutes; ASTM D1208
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Descriptive Properties	Value	Comments
Helium Transition Rate	max 6 cc/100 in ² /day	ASTM 1434

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