

Honeywell Capran® Emblem,ç MT1500 Bi-Axially Oriented Nylon 6 Film

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

Material Notes:

Description: Capran® Emblem,ç MT1500 is a 0.60 mil (15 micron) biaxially oriented nylon 6 film with a metallized barrier coating well suited for high barrier packaging applications. Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-Capran-Emblem-MT1500-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	2.60 g/m ² /day	0.167 g/100 in ² /day	100°F / 100%RH); ASTM F1249
Oxygen Transmission Rate	1.10 cc/m ² /day	0.0708 cc/100 in ² /day	77°F / 0% / RH; ASTM D3985
Thickness	15.2 microns	0.600 mil	
Surface Tension	>= 50 dynes/cm	>= 50 dynes/cm	untreated side; ASTM D5946

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	60 - 110 %	60 - 110 %	ASTM D882
Film Elongation at Break, TD	65 - 90 %	65 - 90 %	ASTM D882
Secant Modulus, MD	2.413 - 3.516 GPa	350.0 - 510.0 ksi	ASTM D882
Secant Modulus, TD	2.275 - 3.448 GPa	330.0 - 500.1 ksi	ASTM D882
Coefficient of Friction	0.18 - 0.27	0.18 - 0.27	film to stainless steel; ASTM D1894
	0.59 - 0.90	0.59 - 0.90	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	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
Shrinkage, TD	0.20 - 0.70 %	0.20 - 0.70 %	320°F / 160°C - 5 minutes; ASTM D1204

Thermal Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Helium Transition Rate		max 93 cc/m ² /day	ASTM 1434

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