

Honeywell Capran® Oxyshield® OMBS (1.00 mil) Monoaxially Oriented, Co-Extruded Nylon 6-Based Clear Film

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

Material Notes:

Description: Oxyshield® OMBS Oriented Medium Barrier is a 1.00 mil (25 micron) monoaxially oriented, coextruded nylon 6/EVOH/nylon 6 clear film with slip additive having excellent gas barrier through moderate relative humidity. The film provides high strength, good chemical resistance, and excellent flavor and aroma barrier for food packaging. Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-Capran-Oxyshield-OMBS-100-mil-Monoaxially-Oriented-Co-Extruded-Nylon-6-Based-Clear-Film.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0410 lb/in ³	Yield Density
Oxygen Transmission Rate	1.55 cc/m ² /day	0.0998 cc/100 in ² /day	73°F (23°C) / 65%RH; ASTM D3985
Thickness	25.4 microns	1.00 mil	
Surface Tension	>= 56 dynes/cm	>= 56 dynes/cm	treated side; ASTM D2578

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, TD	66.2 - 75.8 MPa	9600 - 11000 psi	ASTM D882
Film Elongation at Break, MD	60 - 85 %	60 - 85 %	ASTM D882
Film Elongation at Break, TD	260 - 440 %	260 - 440 %	ASTM D882
Secant Modulus, MD	2.586 - 3.516 GPa	375.1 - 510.0 ksi	ASTM D882
Secant Modulus, TD	2.413 - 2.896 GPa	350.0 - 420.0 ksi	ASTM D882
Coefficient of Friction	0.20 - 0.30	0.20 - 0.30	film to stainless steel; ASTM D1894
	0.70 - 0.80	0.70 - 0.80	film to film; ASTM D1894
Tear Strength Test	1000 - 1600	1000 - 1600	graves tear TD, grams/mil; ASTM D1004
	1100 - 1650	1100 - 1650	graves tear MD, grams/mil; ASTM D1004
Film Tensile Strength at Break, MD	269 - 379 MPa	39000 - 55000 psi	ASTM D882
Film Tensile Strength at Break, TD	62.1 - 103 MPa	9000 - 15000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Shrinkage, MD Thermal Properties	<= 8.0 % Metric	<= 8.0 % English	350Â°F / 177Â°C - 10 min.; ASTM D1204 Comments
Shrinkage, TD	<= 1.5 %	<= 1.5 %	350Â°F / 177Â°C - 10 min.; ASTM D1204

Optical Properties	Metric	English	Comments
Haze	<= 6.0 %	<= 6.0 %	ASTM D1003
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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