

Honeywell Capran® Oxyshield® OEB (0.60 mil) Monoaxially Oriented, Co-Extruded Nylon 6/EVOH/Nylon 6 Clear Film

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

Material Notes:

Description: Oxyshield® OEB Oriented Extra Barrier is a 0.60 mil (15 micron) monoaxially oriented, co-extruded nylon 6/EVOH/nylon 6 clear film having excellent gas barrier through a broad range of 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-OEB-060-mil-Monoaxially-Oriented-Co-Extruded-Nylon-6EVOHNylon-6-Clear-Film.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0420 lb/in ³	Yield Density
Water Vapor Transmission	140 g/m ² /day	9.02 g/100 in ² /day	100°F (37.8°C) / 100%RH; ASTM F1249
Oxygen Transmission Rate	0.230 cc/m ² /day	0.0148 cc/100 in ² /day	50°F (10°C) / 0%RH; ASTM D3985
	0.620 cc/m ² /day	0.0399 cc/100 in ² /day	73°F (23°C) / 65%RH; ASTM D3985
	0.930 cc/m ² /day	0.0599 cc/100 in ² /day	73°F (23°C) / 0%RH; ASTM D3985
Thickness	15.2 microns	0.600 mil	
Surface Tension	>= 56 dynes/cm	>= 56 dynes/cm	treated side; ASTM D2578

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, TD	68.9 - 82.7 MPa	10000 - 12000 psi	ASTM D882
Film Elongation at Break, MD	55 - 80 %	55 - 80 %	ASTM D882
Film Elongation at Break, TD	180 - 425 %	180 - 425 %	ASTM D882
Secant Modulus, MD	3.275 - 4.689 GPa	475.0 - 680.1 ksi	ASTM D882
Secant Modulus, TD	2.586 - 3.448 GPa	375.1 - 500.1 ksi	ASTM D882
Coefficient of Friction	0.25 - 0.57	0.25 - 0.57	film to stainless steel; ASTM D1894
	0.66 - 2.0	0.66 - 2.0	film to film; ASTM D1894
Tear Strength Test	925 - 1450	925 - 1450	graves tear TD, grams/mil; ASTM D1004
	1000 - 1400	1000 - 1400	graves tear MD, grams/mil; ASTM D1004

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	200 - 290 MPa	29000 - 42000 psi	ASTM D882
Film Tensile Strength at Break, TD	48.3 - 96.5 MPa	7000 - 14000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Shrinkage, MD	<= 11 %	<= 11 %	350Â°F / 177Â°C - 10 min.; ASTM D1204
Shrinkage, TD	<= 2.5 %	<= 2.5 %	350Â°F / 177Â°C - 10 min.; ASTM D1204

Optical Properties	Metric	English	Comments
Haze	<= 5.0 %	<= 5.0 %	ASTM D1003
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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