

Honeywell Capran® Oxyshield,ç OBS 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,ç Oriented Barrer is a 0.60 mil (15 micron) monoaxially oriented, co-extruded nylon 6/EVOH/nylon 6 clear film with slip additive 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-OBS-Monoaxially-Oriented-Co-Extruded-Nylon-6EVOHNylon-6-Clear-Film.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0410 lb/in ³	Yield Density
Water Vapor Transmission	217 g/m ² /day	14.0 g/100 in ² /day	100°F (37.8°C) / 100%RH; ASTM F1249
Oxygen Transmission Rate	0.470 cc/m ² /day	0.0303 cc/100 in ² /day	50°F (10°C) / 0%RH; ASTM D3985
	1.70 cc/m ² /day	0.109 cc/100 in ² /day	73°F (23°F) / 65%RH; ASTM D3985
	2.00 cc/m ² /day	0.129 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	63.4 - 80.7 MPa	9200 - 11700 psi	ASTM D882
Film Elongation at Break, MD	50 - 90 %	50 - 90 %	ASTM D882
Film Elongation at Break, TD	225 - 425 %	225 - 425 %	ASTM D882
Secant Modulus, MD	2.758 - 3.999 GPa	400.0 - 580.0 ksi	ASTM D882
Secant Modulus, TD	2.275 - 3.241 GPa	330.0 - 470.1 ksi	ASTM D882
Coefficient of Friction	0.16 - 0.30	0.16 - 0.30	film to stainless steel; ASTM D1894
	0.48 - 1.0	0.48 - 1.0	film to film; ASTM D1894
Tear Strength Test	1000 - 1550	1000 - 1550	graves tear TD, grams/mil; ASTM D1004
	1050 - 1650	1050 - 1650	graves tear MD, grams/mil; ASTM D1004

Film Tensile Strength at Break, MD Mechanical Properties	262 - 352 MPa Metric	38000 - 51000 psi English	ASTM D882 Comments
Film Tensile Strength at Break, TD	53.8 - 100 MPa	7800 - 14500 psi	ASTM D882

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

Optical Properties	Metric	English	Comments
Haze	<= 5.5 %	<= 5.5 %	ASTM D1003
Transmission, Visible	90 %	90 %	clear; thickness not quantified

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China