

Honeywell Capran® Oxyshield,ç OXTR (Retortable Grade, 1.0 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: Capran® Oxyshield,ç Oriented Ultra Barrier Retortable Grade is a monoaxially oriented, co-extruded nylon 6-based 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-OXTR-Retortable-Grade-10-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	181 g/m ² /day	11.7 g/100 in ² /day	100°F (37.8°C) / 97%RH; ASTM F1249
Oxygen Transmission Rate	1.04 cc/m ² /day	0.0670 cc/100 in ² /day	73°F (23°F) / 65%RH; ASTM D3985
	1.23 cc/m ² /day	0.0792 cc/100 in ² /day	73°F (23°C) / 0%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 Elongation at Break, MD	87 %	87 %	ASTM D882
Film Elongation at Break, TD	413 %	413 %	ASTM D882
Coefficient of Friction	0.20	0.20	film to stainless steel; ASTM D1894
	0.50	0.50	film to film; ASTM D1894
Tear Strength Test	732	732	graves tear MD, grams/mil; ASTM D1004
	1192	1192	graves tear TD, grams/mil; ASTM D1004
Film Tensile Strength at Break, MD	241 MPa	35000 psi	ASTM D882
Film Tensile Strength at Break, TD	99.3 MPa	14400 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	<= 93.0 °C	<= 199 °F	continuous use temperature

Thermal Properties	Metric °C	English °F	Comments short time use temperature
Shrinkage, MD	11 %	11 %	350°F / 177°C - 10 min.; ASTM D1204
Shrinkage, TD	1.6 %	1.6 %	350°F / 177°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

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