

## Honeywell Capran® Oxyshield,ç OXTR (Retortable Grade, 0.6 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-06-mil-Monoaxially-Oriented-Co-Extruded-Nylon-6EVOHNylon-6-Clear-Film.php](http://www.lookpolymers.com/polymer_Honeywell-Capran-Oxyshield-OXTR-Retortable-Grade-06-mil-Monoaxially-Oriented-Co-Extruded-Nylon-6EVOHNylon-6-Clear-Film.php)

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0410 lb/in <sup>3</sup>	Yield Density
Water Vapor Transmission	301 g/m <sup>2</sup> /day	19.4 g/100 in <sup>2</sup> /day	100 <sup>o</sup> F (37.8 <sup>o</sup> C) / 97%RH; ASTM F1249
Oxygen Transmission Rate	1.38 cc/m <sup>2</sup> /day	0.0889 cc/100 in <sup>2</sup> /day	73 <sup>o</sup> F (23 <sup>o</sup> F) / 65%RH; ASTM D3985
	2.05 cc/m <sup>2</sup> /day	0.132 cc/100 in <sup>2</sup> /day	73 <sup>o</sup> F (23 <sup>o</sup> 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 Elongation at Break, MD	78 %	78 %	ASTM D882
Film Elongation at Break, TD	410 %	410 %	ASTM D882
Coefficient of Friction	0.25	0.25	film to stainless steel; ASTM D1894
	0.70	0.70	film to film; ASTM D1894
Tear Strength Test	636	636	graves tear MD, grams/mil; ASTM D1004
	1139	1139	graves tear TD, grams/mil; ASTM D1004
Film Tensile Strength at Break, MD	269 MPa	39000 psi	ASTM D882
Film Tensile Strength at Break, TD	103 MPa	15000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	<= 93.0 <sup>o</sup> C	<= 199 <sup>o</sup> F	continuous use temperature

Thermal Properties	$\leq 176\text{ }^{\circ}\text{C}$ Metric	$\leq 349\text{ }^{\circ}\text{F}$ English	short time use temperature Comments
Shrinkage, MD	12.6 %	12.6 %	350 $^{\circ}\text{F}$ / 177 $^{\circ}\text{C}$ - 10 min.; ASTM D1204
Shrinkage, TD	2.1 %	2.1 %	350 $^{\circ}\text{F}$ / 177 $^{\circ}\text{C}$ - 10 min.; ASTM D1204

Optical Properties	Metric	English	Comments
Haze	$\leq 3.0\%$	$\leq 3.0\%$	ASTM D1003
Transmission, Visible	90 %	90 %	clear; thickness not quantified

## Contact Songhan Plastic Technology Co.,Ltd.

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