

Honeywell Capran® Oxyshield M-OPA (0.75 mil) Monoaxially Oriented, Co-Extruded In-Line Nylon6/Nylon6/Nylon6 Film

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

Material Notes:

Description: Capran® Oxyshield M-OPA (Machine Direction Oriented Polyamide) is a clear, monoaxially oriented, co-extruded in-line nylon6/nylon6/nylon6 film with high mechanical strength and good gas barrier properties for packaging. Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-Capran-Oxyshield-M-OPA-075-mil-Monoaxially-Oriented-Co-Extruded-In-Line-Nylon6Nylon6Nylon6-Film.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0410 lb/in ³	Yield Density
Oxygen Transmission Rate	30.0 - 35.0 cc/m ² /day	1.93 - 2.25 cc/100 in ² /day	73°F (23°C) / 65%RH; ASTM D3985
Thickness	19.0 microns	0.750 mil	
Surface Tension	>= 56 dynes/cm	>= 56 dynes/cm	treated side; ASTM D2578

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, TD	59.3 - 75.8 MPa	8600 - 11000 psi	ASTM D882
Film Elongation at Break, MD	70 - 100 %	70 - 100 %	ASTM D882
Film Elongation at Break, TD	300 - 425 %	300 - 425 %	ASTM D882
Secant Modulus, MD	1.724 - 2.586 GPa	250.0 - 375.1 ksi	ASTM D882
Secant Modulus, TD	1.896 - 2.758 GPa	275.0 - 400.0 ksi	ASTM D882
Coefficient of Friction	0.16 - 0.30	0.16 - 0.30	film to stainless steel; ASTM D1894
	0.60 - 1.0	0.60 - 1.0	film to film; ASTM D1894
Tear Strength Test	1100 - 1500	1100 - 1500	graves tear MD, grams/mil; ASTM D1004
	1100 - 1500	1100 - 1500	graves tear TD, grams/mil; ASTM D1004
Film Tensile Strength at Break, MD	290 - 372 MPa	42000 - 54000 psi	ASTM D882
Film Tensile Strength at Break, TD	68.9 - 96.5 MPa	10000 - 14000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Shrinkage, MD Thermal Properties	<= 10 % Metric	<= 10 % 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	<= 5.5 %	<= 5.5 %	ASTM D1003

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