

Honeywell Capran® Oxyshield,ç M-OPA (0.60 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,ç 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-060-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 | 37.0 - 43.0 cc/m ² /day | 2.38 - 2.77 cc/100 in ² /day | 73°F (23°C) / 65%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 | 59.3 - 75.8 MPa | 8600 - 11000 psi | ASTM D882 |
| Film Elongation at Break, MD | 65 - 95 % | 65 - 95 % | 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 |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| 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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