

## Honeywell Capran® Oxyshield, OMBS (0.60 mil) Monoaxially Oriented, Co-Extruded Nylon6/EVOH/Nylon 6 Clear Film

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

### Material Notes:

Description: Oxyshield, OMBS Oriented Medium Barrier is a 0.60 mil (15 micron) monoaxially oriented, coextruded nylon 6/EVOH/nylon 6 clear film with slip additive having excellent gas barrier through moderate 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-OMBS-060-mil-Monoaxially-Oriented-Co-Extruded-Nylon6EVOHNylon-6-Clear-Film.php](http://www.lookpolymers.com/polymer_Honeywell-Capran-Oxyshield-OMBS-060-mil-Monoaxially-Oriented-Co-Extruded-Nylon6EVOHNylon-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 | 217 g/m <sup>2</sup> /day   | 14.0 g/100 in <sup>2</sup> /day   | 100°F (37.8°C) / 100%RH; ASTM F1249 |
| Oxygen Transmission Rate | 3.10 cc/m <sup>2</sup> /day | 0.200 cc/100 in <sup>2</sup> /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 | 66.2 - 75.8 MPa   | 9600 - 11000 psi  | ASTM D882                             |
| Film Elongation at Break, MD       | 60 - 85 %         | 60 - 85 %         | ASTM D882                             |
| Film Elongation at Break, TD       | 260 - 440 %       | 260 - 440 %       | ASTM D882                             |
| Secant Modulus, MD                 | 2.586 - 3.516 GPa | 375.1 - 510.0 ksi | ASTM D882                             |
| Secant Modulus, TD                 | 2.413 - 2.896 GPa | 350.0 - 420.0 ksi | ASTM D882                             |
| Coefficient of Friction            | 0.18 - 0.35       | 0.18 - 0.35       | film to stainless steel; ASTM D1894   |
|                                    | 0.47 - 0.91       | 0.47 - 0.91       | film to film; ASTM D1894              |
| Tear Strength Test                 | 1000 - 1600       | 1000 - 1600       | graves tear TD, grams/mil; ASTM D1004 |
|                                    | 1100 - 1650       | 1100 - 1650       | graves tear MD, grams/mil; ASTM D1004 |
| Film Tensile Strength at Break, MD | 269 - 379 MPa     | 39000 - 55000 psi | ASTM D882                             |
| Film Tensile Strength at Break, TD | 62.1 - 103 MPa    | 9000 - 15000 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](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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