

## Honeywell Capran® Emblem,ç MT2500 Bi-Axially Oriented Nylon 6 Film

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

### Material Notes:

Description: Capran® Emblem,ç MT2500 is a 1.00 mil (25 micron) biaxially oriented nylon 6 film with a metallized barrier coating. Applications: Capran® Emblem,ç MT2500 is well suited for high barrier packaging solutions. Information provided by Honeywell.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Honeywell-Capran-Emblem-MT2500-Bi-Axially-Oriented-Nylon-6-Film.php](http://www.lookpolymers.com/polymer_Honeywell-Capran-Emblem-MT2500-Bi-Axially-Oriented-Nylon-6-Film.php)

| Physical Properties      | Metric                      | English                            | Comments                    |
|--------------------------|-----------------------------|------------------------------------|-----------------------------|
| Density                  | 1.16 g/cc                   | 0.0420 lb/in <sup>3</sup>          | Yield Density               |
| Water Vapor Transmission | 2.60 g/m <sup>2</sup> /day  | 0.167 g/100 in <sup>2</sup> /day   | 100°F / 100%RH); ASTM F1249 |
| Oxygen Transmission Rate | 1.10 cc/m <sup>2</sup> /day | 0.0708 cc/100 in <sup>2</sup> /day | 77°F / 0% / RH; ASTM D3985  |
| Thickness                | 25.4 microns                | 1.00 mil                           |                             |
| Surface Tension          | >= 50 dynes/cm              | >= 50 dynes/cm                     | untreated side; ASTM D5946  |

| Mechanical Properties              | Metric            | English           | Comments                              |
|------------------------------------|-------------------|-------------------|---------------------------------------|
| Film Elongation at Break, MD       | 70 - 110 %        | 70 - 110 %        | ASTM D882                             |
| Film Elongation at Break, TD       | 60 - 90 %         | 60 - 90 %         | ASTM D882                             |
| Secant Modulus, MD                 | 2.413 - 3.551 GPa | 350.0 - 515.0 ksi | ASTM D882                             |
| Secant Modulus, TD                 | 2.275 - 3.282 GPa | 330.0 - 476.0 ksi | ASTM D882                             |
| Coefficient of Friction            | 0.21 - 0.41       | 0.21 - 0.41       | film to stainless steel; ASTM D1894   |
|                                    | 0.65 - 0.86       | 0.65 - 0.86       | film to film; ASTM D1894              |
| Tear Strength Test                 | 1150 - 1475       | 1150 - 1475       | graves tear TD, grams/mil; ASTM D1004 |
|                                    | 1150 - 1500       | 1150 - 1500       | graves tear MD, grams/mil; ASTM D1004 |
| Film Tensile Strength at Break, MD | 234 - 283 MPa     | 34000 - 41000 psi | ASTM D882                             |
| Film Tensile Strength at Break, TD | 221 - 283 MPa     | 32000 - 41000 psi | ASTM D882                             |

| Thermal Properties | Metric      | English     | Comments                              |
|--------------------|-------------|-------------|---------------------------------------|
| Shrinkage, MD      | 1.6 - 2.3 % | 1.6 - 2.3 % | 320°F / 160°C - 5 minutes; ASTM D1204 |

|                    |        |         |          |
|--------------------|--------|---------|----------|
| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|

| Descriptive Properties | Value                         | Comments  |
|------------------------|-------------------------------|-----------|
| Helium Transition Rate | max 93 cc/m <sup>2</sup> /day | ASTM 1434 |

**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