

## Honeywell Aegis™ H85ZP Nylon 6 Extrusion Grade Homopolymer Film (discontinued \*\*)

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

### Material Notes:

Description: Aegis H85ZP is a medium viscosity, nylon 6 extrusion grade homopolymer for cast or blown film. It conforms to Food and Drugs Administration requirements of 21 CFR 177.1500 as well as EU Directive 2002/72/EC. It possesses the combination of strength, toughness and thermo-forming properties associated with nylon 6 as well as excellent heat, chemical, and abrasion resistance. Applications: Processed Meat Fresh Red Meat Poultry Fish Cheese Dried Food Chilled Fruit Juices Information provided by Honeywell.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Honeywell-Aegis-H85ZP-Nylon-6-Extrusion-Grade-Homopolymer-Film-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Honeywell-Aegis-H85ZP-Nylon-6-Extrusion-Grade-Homopolymer-Film-nbspdiscontinued-.php)

| Physical Properties                | Metric   | English  | Comments                                   |
|------------------------------------|--|--|--|
| Specific Gravity                   | 1.13 g/cc  | 1.13 g/cc  | ASTM D1505                                 |
| Water Absorption                   | 1.6 %  | 1.6 %  | in 24 hours                                |
| Moisture Absorption at Equilibrium | 2.7 %  | 2.7 %  | at 50% RH                                  |
| Water Absorption at Saturation     | 9.5 %  | 9.5 %  |  |
| Oxygen Transmission Rate           | 40.3 cc/m <sup>2</sup> /day                          | 2.60 cc/100 in <sup>2</sup> /day                     |  |
| Nitrogen Transmission              | 14.0 cc-mm/m <sup>2</sup> -24hr-atm                  | 35.6 cc-mil/100 in <sup>2</sup> -24hr-atm            | cc/m <sup>2</sup> /day, No thickness given |
| Carbon Dioxide Transmission        | 72.8 cc-mm/m <sup>2</sup> -24hr-atm                  | 185 cc-mil/100 in <sup>2</sup> -24hr-atm             | cc/m <sup>2</sup> /day, No thickness given |
| Viscosity Measurement              | 3.15   | 3.15   | 96% SAV                                    |
|                                    | 85   | 85   | FAV; ASTM D789                             |
| Maximum Moisture Content           | 0.080  | 0.080  |  |
| Melt Flow                          | 1.2 g/10 min<br>@Load 1.00 kg,<br>Temperature 235 °C | 1.2 g/10 min<br>@Load 2.20 lb,<br>Temperature 455 °F | ASTM D1238                                 |

| Thermal Properties | Metric | English | Comments   |
|--------------------|--------|---------|------------|
| Melting Point      | 220 °C | 428 °F  | ASTM D3418 |

| Processing Properties     | Metric       | English      | Comments  |
|---------------------------|--------------|--------------|-----------|
| Middle Barrel Temperature | 230 - 260 °C | 446 - 500 °F | Cast Film |

| Processing Properties | 246 - 254 °C<br>Metric | 475 - 489 °F<br>English | Tubular (Blown) Film<br>Comments |
|-----------------------|------------------------|-------------------------|----------------------------------|
| Adapter Temperature   | 260 °C                 | 500 °F                  | Tubular (Blown) Film             |
|                       | 260 - 266 °C           | 500 - 511 °F            | Cast Film                        |
| Die Temperature       | 254 °C                 | 490 °F                  | Tubular (Blown) Film             |
|                       | 260 °C                 | 500 °F                  | Cast Film                        |
| Melt Temperature      | 254 - 260 °C           | 489 - 500 °F            | Tubular (Blown) Film             |
|                       | 260 - 270 °C           | 500 - 518 °F            | Cast Film                        |

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