

## Huntsman PE1605 EVA Film Extrusion (discontinued \*\*)

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate , Ethylene Vinyl Acetate Copolymer (EVA), Film Grade

### Material Notes:

6% Vinyl Acetate EVA copolymer and FDA compliant  
**Features:** Excellent balance of optical and strength, toughness and flexibility at low temperatures, and good heat seal characteristic.  
**Applications:** Film extrusion: frozen food and general purpose packaging where toughness is required.  
**FDA Notes:** Conforms to FDA regulation 21 CFR 177.1350 under condition of use C through G described in Table 2 of 21 CFR 176.170  
**Film properties based on 1.0 guage (25 µm) thickness; blow-up ratio 2:1.** Information provided by Huntsman Corporation

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Huntsman-PE1605-EVA-Film-Extrusion-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Huntsman-PE1605-EVA-Film-Extrusion-nbspdiscontinued-.php)

| Physical Properties | Metric       | English                   | Comments   |
|---------------------|--------------|---------------------------|------------|
| Density             | 0.927 g/cc   | 0.0335 lb/in <sup>3</sup> | ASTM D1505 |
| Thickness           | 25.4 microns | 1.00 mil                  |            |
| Melt Flow           | 2.0 g/10 min | 2.0 g/10 min              | ASTM D1238 |

| Mechanical Properties              | Metric        | English   | Comments          |
|------------------------------------|---------------|-----------|-------------------|
| Hardness, Shore D                  | 45            | 45        | ASTM D2240        |
| Tensile Strength, Ultimate         | 13.0 MPa      | 1890 psi  | ASTM D638         |
| Tensile Strength, Yield            | 8.00 MPa      | 1160 psi  | ASTM D638         |
| Film Elongation at Break, MD       | 400 %         | 400 %     | ASTM D882         |
| Film Elongation at Break, TD       | 500 %         | 500 %     | ASTM D882         |
| Elongation at Break                | 900 %         | 900 %     | ASTM D638         |
| Modulus of Elasticity              | 0.173 GPa     | 25.1 ksi  | Secant; ASTM D638 |
| Secant Modulus, MD                 | 0.107 GPa     | 15.5 ksi  | ASTM D882         |
| Secant Modulus, TD                 | 0.117 GPa     | 17.0 ksi  | ASTM D882         |
| Dart Drop                          | 7.87 g/micron | 200 g/mil | ASTM D1709        |
| Dart Drop Test                     | 200 g         | 0.441 lb  | ASTM D1709        |
| Film Tensile Strength at Break, MD | 23.0 MPa      | 3340 psi  | ASTM D882         |
| Film Tensile Strength at Break, TD | 19.0 MPa      | 2760 psi  | ASTM D882         |

| Thermal Properties    | Metric  | English | Comments   |
|-----------------------|---------|---------|------------|
| Vicat Softening Point | 85.0 °C | 185 °F  | ASTM D1525 |

| Thermal Properties | Metric | English | Comments          |
|--------------------|--------|---------|-------------------|
| Optical Properties | Metric | English | Comments          |
| Haze               | 4.0 %  | 4.0 %   | ASTM D1003        |
| Gloss              | 70 %   | 70 %    | at 45°; ASTM D523 |

  

| Processing Properties | Metric       | English      | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature      | 171 - 182 °C | 340 - 360 °F |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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