

## Huntsman PE1158 EVA Film Extrusion (discontinued \*\*)

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

### Material Notes:

1.5% 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, and extrusions. 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-PE1158-EVA-Film-Extrusion-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Huntsman-PE1158-EVA-Film-Extrusion-nbspdiscontinued-.php)

| Physical Properties | Metric       | English                   | Comments   |
|---------------------|--------------|---------------------------|------------|
| Density             | 0.922 g/cc   | 0.0333 lb/in <sup>3</sup> | ASTM D1505 |
| Thickness           | 25.4 microns | 1.00 mil                  |            |
| Melt Flow           | 7.0 g/10 min | 7.0 g/10 min              | ASTM D1238 |

| Mechanical Properties              | Metric        | English    | Comments          |
|------------------------------------|---------------|------------|-------------------|
| Hardness, Shore D                  | 41            | 41         | ASTM D2240        |
| Tensile Strength, Ultimate         | 12.0 MPa      | 1740 psi   | ASTM D638         |
| Tensile Strength, Yield            | 9.00 MPa      | 1310 psi   | ASTM D638         |
| Film Elongation at Break, MD       | 150 %         | 150 %      | ASTM D882         |
| Film Elongation at Break, TD       | 300 %         | 300 %      | ASTM D882         |
| Elongation at Break                | 900 %         | 900 %      | ASTM D638         |
| Modulus of Elasticity              | 0.255 GPa     | 37.0 ksi   | Secant; ASTM D638 |
| Secant Modulus, MD                 | 0.207 GPa     | 30.0 ksi   | ASTM D882         |
| Secant Modulus, TD                 | 0.248 GPa     | 36.0 ksi   | ASTM D882         |
| Dart Drop                          | 3.54 g/micron | 90.0 g/mil | ASTM D1709        |
| Dart Drop Test                     | 90.0 g        | 0.198 lb   | ASTM D1709        |
| Film Tensile Strength at Break, MD | 16.0 MPa      | 2320 psi   | ASTM D882         |
| Film Tensile Strength at Break, TD | 15.0 MPa      | 2180 psi   | ASTM D882         |

| Thermal Properties    | Metric  | English | Comments   |
|-----------------------|---------|---------|------------|
| Vicat Softening Point | 89.0 °C | 192 °F  | ASTM D1525 |

| Thermal Properties | Metric | English | Comments          |
|--------------------|--------|---------|-------------------|
| Optical Properties | Metric | English | Comments          |
| Haze               | 4.5 %  | 4.5 %   | ASTM D1003        |
| Gloss              | 70 %   | 70 %    | at 45°; ASTM D523 |

| Processing Properties | Metric       | English      | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature      | 185 - 193 °C | 365 - 379 °F |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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