

## Huntsman PE 1008 Film Extrusion Polyethylene (discontinued \*\*)

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Film Grade

### Material Notes:

Homopolymer, and FDA compliant. Features: Superior strength, good machinability, and heat seal characteristics. Applications: Film extrusion: industrial packaging, frozen food, produce bags, shrink, and bundling. FDA Notes: Conforms to FDA regulation 21 CFR 177.1520 (c)2.2 under condition of use B through H 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-PE-1008-Film-Extrusion-Polyethylene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Huntsman-PE-1008-Film-Extrusion-Polyethylene-nbspdiscontinued-.php)

| Physical Properties | Metric        | English                   | Comments   |
|---------------------|---------------|---------------------------|------------|
| Density             | 0.924 g/cc    | 0.0334 lb/in <sup>3</sup> | ASTM D1505 |
| Thickness           | 25.4 microns  | 1.00 mil                  |            |
| Melt Flow           | 0.80 g/10 min | 0.80 g/10 min             | ASTM D1238 |

| Mechanical Properties              | Metric               | English          | Comments          |
|------------------------------------|----------------------|------------------|-------------------|
| Hardness, Shore D                  | 51                   | 51               | ASTM D2240        |
| Tensile Strength, Ultimate         | 14.0 MPa             | 2030 psi         | ASTM D638         |
| Tensile Strength, Yield            | 10.0 MPa             | 1450 psi         | ASTM D638         |
| Film Elongation at Break, MD       | 150 %                | 150 %            | ASTM D882         |
| Film Elongation at Break, TD       | 500 %                | 500 %            | ASTM D882         |
| Elongation at Break                | 650 %                | 650 %            | ASTM D638         |
| Modulus of Elasticity              | 0.276 GPa            | 40.0 ksi         | Secant; ASTM D638 |
| Secant Modulus, MD                 | 0.238 GPa            | 34.5 ksi         | ASTM D882         |
| Secant Modulus, TD                 | 0.276 GPa            | 40.0 ksi         | ASTM D882         |
| Dart Drop                          | 3.54 - 3.94 g/micron | 90.0 - 100 g/mil | ASTM D1709        |
| Dart Drop Test                     | 90.0 - 100 g         | 0.198 - 0.221 lb | ASTM D1709        |
| Film Tensile Strength at Break, MD | 22.0 MPa             | 3190 psi         | ASTM D882         |
| Film Tensile Strength at Break, TD | 21.0 MPa             | 3050 psi         | ASTM D882         |

| Thermal Properties    | Metric  | English | Comments   |
|-----------------------|---------|---------|------------|
| Vicat Softening Point | 99.0 °C | 210 °F  | ASTM D1525 |

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

| Processing Properties | Metric       | English      | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature      | 182 - 193 °C | 360 - 379 °F |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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