

## Dow AFFINITY™ PL 1845 Polyolefin Plastomer

Category : Polymer , Film , Thermoplastic , Elastomer , TPE

**Material Notes:**

Film properties below based on a film thickness of 25 µm. Data provided by Dow Chemical.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-AFFINITY-PL-1845-Polyolefin-Plastomer.php](http://www.lookpolymers.com/polymer_Dow-AFFINITY-PL-1845-Polyolefin-Plastomer.php)

| Physical Properties | Metric                        | English                       | Comments                       |
|---------------------|-------------------------------|-------------------------------|--------------------------------|
| Density             | 0.910 g/cc                    | 0.0329 lb/in <sup>3</sup>     |                                |
| Thickness           | 25.0 microns                  | 0.984 mil                     |                                |
| Melt Flow           | 3.5 g/10 min<br>@Load 2.16 kg | 3.5 g/10 min<br>@Load 4.76 lb | Melt flow ratio I10/I2 is 8.5. |

| Mechanical Properties              | Metric        | English   | Comments |
|------------------------------------|---------------|-----------|----------|
| Film Elongation at Break, MD       | 527 %         | 527 %     |          |
| Film Elongation at Break, TD       | 664 %         | 664 %     |          |
| Elmendorf Tear Strength MD         | 178 g         | 178 g     |          |
| Elmendorf Tear Strength TD         | 362 g         | 362 g     |          |
| Elmendorf Tear Strength, MD        | 7.10 g/micron | 180 g/mil |          |
| Elmendorf Tear Strength, TD        | 14.5 g/micron | 368 g/mil |          |
| Dart Drop                          | 18.8 g/micron | 478 g/mil |          |
| Film Tensile Strength at Break, MD | 45.4 MPa      | 6580 psi  |          |
| Film Tensile Strength at Break, TD | 33.4 MPa      | 4840 psi  |          |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
| Haze               | 0.70 % | 0.70 %  |          |

| Processing Properties  | Metric  | English | Comments                    |
|------------------------|---------|---------|-----------------------------|
| Processing Temperature | 99.0 °C | 210 °F  | Seal initiation temperature |
|                        | 274 °C  | 525 °F  | Film extrusion temperature  |

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