

## Dow DOWLEX™ 2247A Linear Low Density Polyethylene, Cast Film Grade

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

### Material Notes:

DOWLEX® 2247A Polyethylene resin is a cast film polymer for applications requiring outstanding tear strength, impact strength and toughness. This material complies with U.S. FDA Regulation 21 CFR 177.1520 c 3.2 (a) food packaging applications. The regulation should be consulted for complete details. 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-DOWLEX-2247A-Linear-Low-Density-Polyethylene-Cast-Film-Grade.php](http://www.lookpolymers.com/polymer_Dow-DOWLEX-2247A-Linear-Low-Density-Polyethylene-Cast-Film-Grade.php)

| Physical Properties | Metric                        | English                       | Comments                       |
|---------------------|-------------------------------|-------------------------------|--------------------------------|
| Density             | 0.917 g/cc                    | 0.0331 lb/in <sup>3</sup>     |                                |
| Thickness           | 25.0 microns                  | 0.984 mil                     |                                |
| Melt Flow           | 2.3 g/10 min<br>@Load 2.16 kg | 2.3 g/10 min<br>@Load 4.76 lb | Melt flow ratio I10/I2 is 7.6. |

| Mechanical Properties              | Metric        | English   | Comments        |
|------------------------------------|---------------|-----------|-----------------|
| Tensile Strength, Ultimate         | 13.1 MPa      | 1900 psi  | Molded property |
| Film Tensile Strength at Yield, MD | 7.60 MPa      | 1100 psi  |                 |
| Film Tensile Strength at Yield, TD | 7.60 MPa      | 1100 psi  |                 |
| Tensile Strength, Yield            | 10.3 MPa      | 1490 psi  | Molded property |
| Film Elongation at Break, MD       | 510 %         | 510 %     |                 |
| Film Elongation at Break, TD       | 760 %         | 760 %     |                 |
| Elongation at Break                | 900 %         | 900 %     | Molded value    |
| Elmendorf Tear Strength MD         | 325 g         | 325 g     |                 |
| Elmendorf Tear Strength TD         | 520 g         | 520 g     |                 |
| Elmendorf Tear Strength, MD        | 13.0 g/micron | 330 g/mil |                 |
| Elmendorf Tear Strength, TD        | 20.8 g/micron | 528 g/mil |                 |
| Dart Drop                          | 12.8 g/micron | 325 g/mil |                 |
| Film Tensile Strength at Break, MD | 62.7 MPa      | 9090 psi  |                 |
| Film Tensile Strength at Break, TD | 39.3 MPa      | 5700 psi  |                 |

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

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
| Haze               | 0.90 % | 0.90 %  |          |
| Gloss              | 95 %   | 95 %    | 45°      |

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

## Contact Songhan Plastic Technology Co.,Ltd.

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