

## Dow DOWLEX™ 2047A Linear Low Density Polyethylene, Cast Film Grade

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

### Material Notes:

DOWLEX® 2047A Polyethylene resin is a cast film polymer for high performance stretch cling applications. It provides outstanding tear strength, impact strength and toughness. It complies with U.S. FDA Regulation 21 CFR 177.1520 (c) 3.2 (a) when used unmodified and according to good manufacturing practices for food contact applications, including packing or holding food during cooking. 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-2047A-Linear-Low-Density-Polyethylene-Cast-Film-Grade.php](http://www.lookpolymers.com/polymer_Dow-DOWLEX-2047A-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.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China