

## Dow LDPE 683I Low Density Polyethylene, Film Grade

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

### Material Notes:

DOW LDPE 683I resin is a general purpose resin with low levels of antiblock additive used for frozen food, and heavy duty film applications. This material complies with U.S.FDA regulation 21 CFR 177.1520(c) 2.1 for food contact applications. The regulation should be consulted for complete details.Data provided by Dow Chemical.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-LDPE-683I-Low-Density-Polyethylene-Film-Grade.php](http://www.lookpolymers.com/polymer_Dow-LDPE-683I-Low-Density-Polyethylene-Film-Grade.php)

| Physical Properties | Metric                         | English                        | Comments |
|---------------------|--------------------------------|--------------------------------|----------|
| Density             | 0.923 g/cc                     | 0.0333 lb/in <sup>3</sup>      |          |
| Melt Flow           | 0.70 g/10 min<br>@Load 2.16 kg | 0.70 g/10 min<br>@Load 4.76 lb |          |

| Mechanical Properties              | Metric   | English  | Comments                   |
|------------------------------------|----------|----------|----------------------------|
| Film Tensile Strength at Yield, MD | 10.3 MPa | 1490 psi |                            |
| Film Tensile Strength at Yield, TD | 10.3 MPa | 1490 psi |                            |
| Film Elongation at Break, MD       | 360 %    | 360 %    |                            |
| Film Elongation at Break, TD       | 530 %    | 530 %    |                            |
| Coefficient of Friction            | 0.50     | 0.50     |                            |
| Elmendorf Tear Strength MD         | 270 g    | 270 g    | Unspecified film thickness |
| Elmendorf Tear Strength TD         | 290 g    | 290 g    | Unspecified film thickness |
| Dart Drop Test                     | 140 g    | 0.309 lb |                            |
| Film Tensile Strength at Break, MD | 27.6 MPa | 4000 psi |                            |
| Film Tensile Strength at Break, TD | 19.3 MPa | 2800 psi |                            |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
| Haze               | 9.0 %  | 9.0 %   |          |
| Gloss              | 64 %   | 64 %    | 45°      |

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