

## Reliance Industries Reclair O19010 Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Injection Molded

### Material Notes:

Blow film Linear Low Density Polyethylene grade. Reclair O19010 is octene comonomer based, with optimum levels of antioxidants, antiblocking agents, slip additives, and polymer processing aids. This grade is good for heavy duty applications and liquid packaging.

Characteristics:excellent seal through contamination, excellent toughness, excellent impact strength, and excellent tear resistance.

Information provided by Reliance Industries

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Reliance-Industries-Reclair-O19010-Polyethylene.php](http://www.lookpolymers.com/polymer_Reliance-Industries-Reclair-O19010-Polyethylene.php)

| Physical Properties | Metric                         | English                        | Comments   |
|---------------------|--------------------------------|--------------------------------|------------|
| Density             | 0.918 g/cc                     | 0.0332 lb/in <sup>3</sup>      | ASTM D1505 |
| Melt Flow           | 0.90 g/10 min<br>@Load 2.16 kg | 0.90 g/10 min<br>@Load 4.76 lb | ASTM D1238 |

| Mechanical Properties              | Metric        | English   | Comments                                         |
|------------------------------------|---------------|-----------|--------------------------------------------------|
| Film Tensile Strength at Yield, MD | 12.5 MPa      | 1810 psi  | ASTM D882                                        |
| Film Tensile Strength at Yield, TD | 13.0 MPa      | 1890 psi  | ASTM D882                                        |
| Film Elongation at Break, MD       | 650 %         | 650 %     | ASTM D882                                        |
| Film Elongation at Break, TD       | 800 %         | 800 %     | ASTM D882                                        |
| Coefficient of Friction, Dynamic   | 0.12          | 0.12      | ASTM D1894                                       |
| Coefficient of Friction, Static    | 0.20          | 0.20      | ASTM D1894                                       |
| Elmendorf Tear Strength, MD        | 13.8 g/micron | 351 g/mil | ASTM D1922                                       |
| Elmendorf Tear Strength, TD        | 27.6 g/micron | 701 g/mil | ASTM D1922                                       |
| Dart Drop                          | 7.00 g/micron | 178 g/mil | F<sub>50</sub>,38mm dart 66mm height; ASTM D1709 |
| Film Tensile Strength at Break, MD | 40.0 MPa      | 5800 psi  | ASTM D882                                        |
| Film Tensile Strength at Break, TD | 35.0 MPa      | 5080 psi  | ASTM D882                                        |

| Optical Properties | Metric | English | Comments      |
|--------------------|--------|---------|---------------|
| Gloss              | 80 %   | 80 %    | 60; ASTM D523 |

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