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SUPERIOR FLEXIBLE PACKAGING RESINS

## Marlex® 7308DK Polyethylene

### LINEAR LOW DENSITY POLYETHYLENE (LLDPE)

**This linear low density polyethylene is an ethylene-hexene copolymer tailored for blown film applications that require:**

- Good toughness properties
- Increased stiffness
- Low creep
- Good drawdown
- Excellent processing characteristics
- Use alone or in coextrusions; blends with other polyolefins

**Typical blown film applications include:**

- Industrial films and bags that require added stiffness
- Thin gauge applications
- General purpose packaging

| Nominal Resin Properties   | English  | SI                      | Method     |
|----------------------------|----------|-------------------------|------------|
| Melt Index, 190 °C/2.16 kg | ---      | 0.8 g/10 min            | ASTM D1238 |
| Density                    | ---      | 0.925 g/cm <sup>3</sup> | ASTM D1505 |
| Slip                       | None     | None                    | ---        |
| Antiblock                  | 3000 ppm | 3000 ppm                | ---        |
| Process Aid                | Yes      | Yes                     | ---        |

| Nominal Blown Film Properties at 1 mil <sup>1</sup> | English   | SI        | Method     |
|-----------------------------------------------------|-----------|-----------|------------|
| Haze                                                | 20 %      | 20 %      | ASTM D1003 |
| Gloss, 60°                                          | 60        | 60        | ASTM D2457 |
| COF                                                 | 0.5       | 0.5       | ASTM D1894 |
| Dart                                                | ---       | 135 g/mil | ASTM D1709 |
| Elmendorf Tear MD                                   | ---       | 300 g/mil | ASTM D1922 |
| Elmendorf Tear TD                                   | ---       | 650 g/mil | ASTM D1922 |
| Tensile Strength at Break MD                        | 8500 psi  | 59 MPa    | ASTM D882  |
| Tensile Strength at Break TD                        | 5500 psi  | 38 MPa    | ASTM D882  |
| Tensile Elongation at Break MD                      | 400 %     | 400 %     | ASTM D882  |
| Tensile Elongation at Break TD                      | 600 %     | 600 %     | ASTM D882  |
| 1 % Secant Modulus MD                               | 40000 psi | 276 MPa   | ASTM D882  |
| 1 % Secant Modulus TD                               | 47000 psi | 324 MPa   | ASTM D882  |

1. Produced on 3.5 in extruder, 30:1 L/D, 8 in die, 80 mil die gap, 2.5:1 BUR, 440 °F melt temperature

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