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Marlex® Polyethylene

SUPERIOR FLEXIBLE PACKAGING RESINS

# Marlex® 7308DK-P01 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
- Non-PFAS process aid[2]
- 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$^3$ | ASTM D1505 |
| Slip | None | None | --- |
| Antiblock | 3000 ppm | 3000 ppm | --- |
| Process Aid | Yes | Yes | --- |

| Nominal Blown Film Properties at 1 mil[1] | 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
2. PFAS as defined by OECD (2021), Reconciling Terminology of the Universe of Per- and Polyfluoroalkyl Substances: Recommendations and Practical Guidance, OECD Series on Risk Management, No. 61, OECD Publishing, Paris. A non-PFAS process aid is not structurally identified as PFAS by OECD (2021).

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