

TechResin® 1475E2

High Strength Linear Low Density Polyethylene for Film Extrusion Applications

TechResin® 1475E2 is a high strength linear low density polyethylene. Film mechanical properties are significantly improved compared to competitive super hexene LLDPE film resins.

TechResin® 1475E2 is formulated with slip and antiblock for use in high performance film applications offering excellent extrusion processing and outstanding impact strength and tear resistance. Films exhibit superior sealing characteristics and good optical properties.

TechResin® 1475E2 meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

Suggested Applications:

Industrial packaging
Can liners

Industrial liners
Consumer trash bags

Food packaging
Coextrusion

Nominal Physical Properties:

| PROPERTY | TEST METHOD | UNIT | VALUE |
|--|-------------|----------|------------|
| Density | D1505 | g/cc | 0.916 |
| Melt Index, Condition E, 190°C/2.16 kg | D1238 | g/10 min | 0.75 |
| Dart Impact | D1709 | g | 535 |
| Tear Strength | D1922 | g | 465/650* |
| Yield Strength | D882 | psi | 1525/1530* |
| Tensile Strength at Break | D882 | psi | 5700/5000* |
| Elongation | D882 | % | 670/880* |
| Seal Initiation Temperature (2mil) | MDT(1) | F°/C° | 212/100 |

* MD / TD

- (1) Temperature at which seal force equals 2.0 lbs. /in. or 8.8 N/24.5 mm is achieved using J&B Hot Tack Sealing Tester, 0.2 sec. dwell time, 30 sec. cooling time, 0.28 N/mm² sealing bar pressure, 200 mm/sec. peel speed.

Available in the following additive packages:

| Additive | 1475A | 1475E2 | 1475H |
|-----------------|----------------------|----------------------|------------------|
| Antiblock (ppm) | 7000 | 7000 | None |
| Slip (ppm) | None | 1500 | None |
| Special | Additives talc based | Additives talc based | High Antioxidant |

Note: Film properties based on 25 micron blown film produced with a 2.5:1 Blow Up Ratio at 12 lbs/hr/in.die. Actual film properties may vary based on extrusion equipment, operating conditions and additive package. Film properties are not intended to be used as specifications.

Published 02/12, Revised 03/16